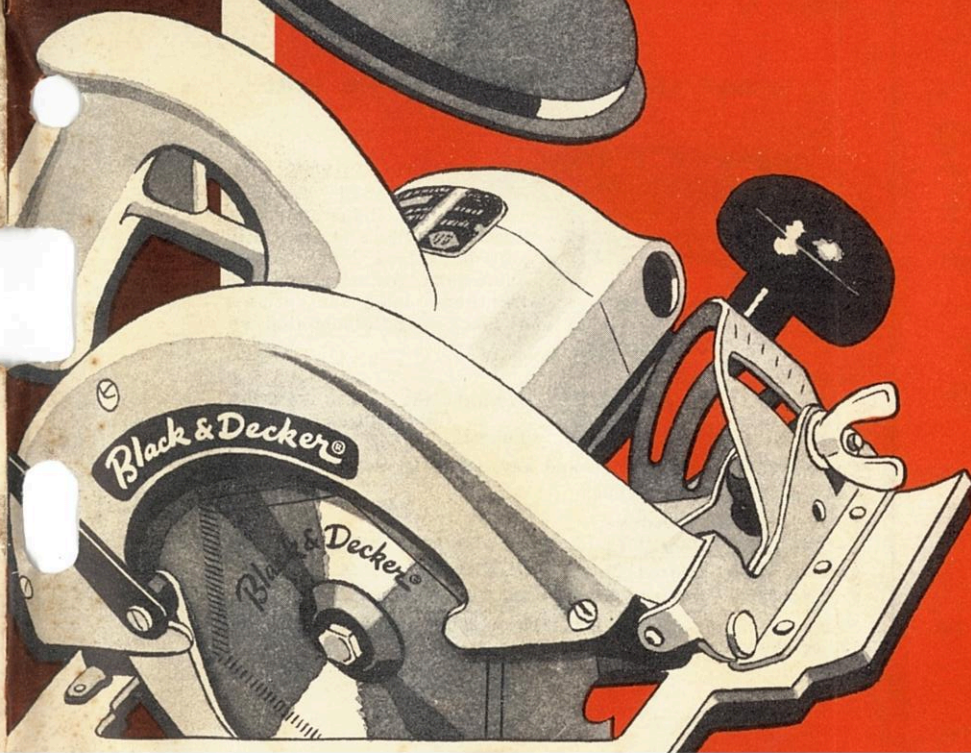
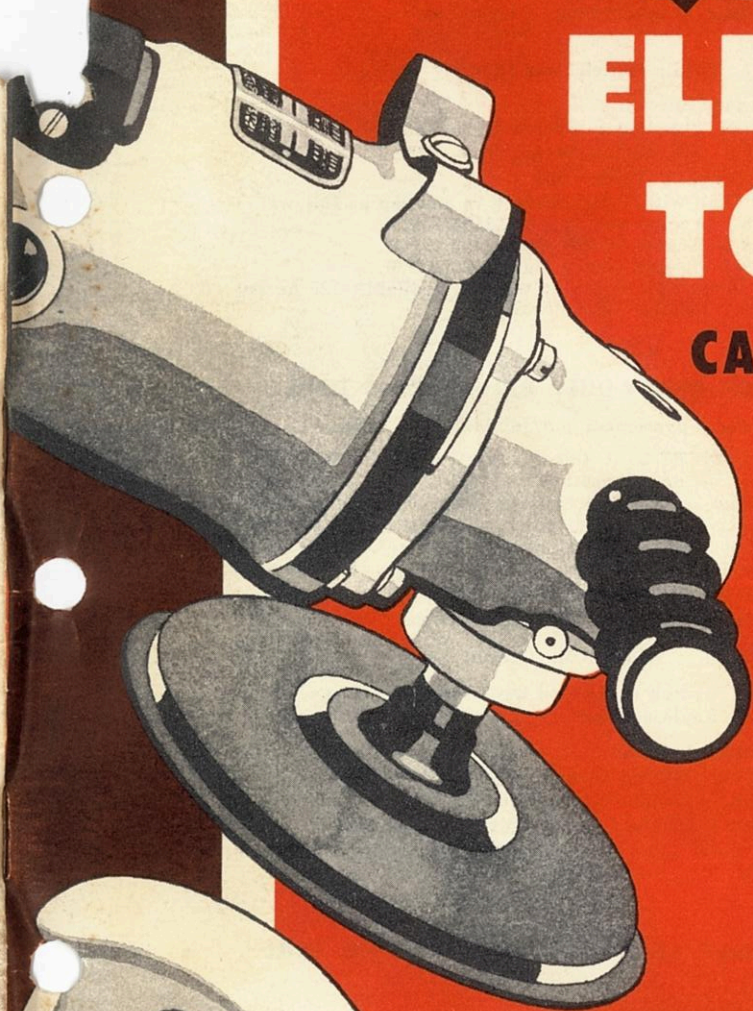


Black & Decker®

QUALITY ELECTRIC TOOLS

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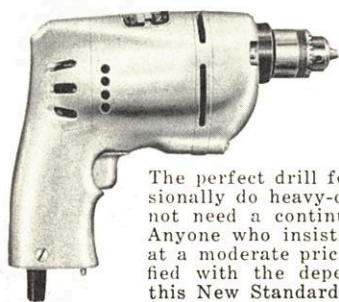
Black & Decker® THE COMPLETE LINE •



1/4-INCH SPECIAL DRILL

An ideal Drill for the tool kit in all types of maintenance and repair work. New housings are proportioned for more comfortable handling. Offers double-reduction gearing, 2000 R.P.M. and 8% MORE POWER than previous models of this tool. Lubricant impregnated bearings with ball thrust bearing give long, dependable service.

Capacity: In Steel... up to 1/4" Weight: Net 3 lbs.
In Hardwood... up to 1/2" Shipping 4 1/4 lbs.
Speed: No-load... 2000 R.P.M. Overall Length 8 1/2"
Standard Equipment—3-conductor cable and plug; 3-jaw Jacobs threaded chuck and key; trigger switch; "universal" motor, 115 or 220 volts. Also available, 125 or 240 volts.
Cat. No. 30 1/4" Special Drill (Specify Voltage)



1/4-INCH STANDARD "HOLGUN"®

The perfect drill for the man who may occasionally do heavy-duty drilling but who does not need a continuous production-type tool. Anyone who insists on a better quality tool at a moderate price will be more than satisfied with the dependable service offered in this New Standard HOLGUN. Armature and spindle are mounted on ball-bearings. Ideal for garages, body shops, maintenance crews, installation work, etc.

Capacity: In Steel... up to 1/4" Weight: Net 3 1/4 lbs.
In Hardwood... up to 1/2" Shipping 4 1/2 lbs.
Speed: No-load... 1700 R.P.M. Overall Length 7-15/16"
Standard Equipment—3-conductor cable and plug; 3-jaw Jacobs Geared Chuck and Key; trigger switch; B&D "Universal" Motor for 115 or 200 volts, A.C. or D.C. Also available, 125 or 240 volts.

Cat. No. 345 Std. Holgun, Type E. (Specify Voltage)

Special No-load Speed:

Cat. No. 345-2 2500 R.P.M. (Specify Voltage)



1/4-INCH HEAVY-DUTY "HOLGUN"®

This is the latest version of the most famous Drill in the electric tool industry. COMPLETELY BALL-BEARING EQUIPPED, the HOLGUN is surprisingly compact with a new handle shaped for plenty of finger room. Built for CONTINUOUS PRODUCTION service it's also especially good in "close-corner" drilling. As for power—IT WILL NOT STALL AT RATED CAPACITY!

	Standard Speed Model	Low Speed Model
Capacity: Steel	up to 1/4"	up to 1/4"
Hardwood	up to 1/2"	up to 1/2"
Speed: No-load	1700 R.P.M.	600 R.P.M.
Weight: Net	3 1/4 lbs.	3 1/2 lbs.
Shipping	4 3/4 lbs.	5 lbs.
Overall length	7-13/16"	8-7/32"
Catalog No. (Specify Voltage)	457	460

Special No-load Speeds:

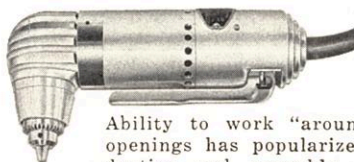
Cat. No. 457-2 Standard Unit—2500 R.P.M.

Cat. No. 457-3 Standard Unit—3500 R.P.M.

Cat. No. 457-5 Standard Unit—5000 R.P.M.

Cat. No. 460-1 Low Speed Unit—1000 R.P.M.

Universal motor 115 or 220 volts. Also available, 125 or 240 volts. Specify voltage when ordering.



1/4-INCH SHORTY® DRILL

Ability to work "around corners" and in small openings has popularized this drill in many production and assembly operations. Small, round motor housing requires no extra handle.

Capacity: In Steel... up to 1/4" Length:
In Hardwood... up to 1/2" Chuck Spindle End... 4 1/2"
Speed: No-load... 2500 R.P.M. Lengthwise 8 1/2"
Weight: Net 3 3/8 lbs.
Shipping 5 1/4 lbs.

Cat. No. 287 Paddle Switch Unit (Specify Voltage)

Special No-load Speeds:

Cat. No. 287-3 Std. Paddle Switch Unit, 3700 R.P.M.

Cat. No. 287-5 Std. Paddle Switch Unit, 5000 R.P.M.

Available on Special Order Only:—

1/4" Shorty Drill with Toggle Switch in end cap as follows:

Cat. No. 298 Toggle Switch Unit, 2500 R.P.M.

Cat. No. 298-3 Toggle Switch Unit, 3700 R.P.M.

Cat. No. 298-5 Toggle Switch Unit, 5000 R.P.M.

Universal motor, 115 or 220 volts. Also available, 125 or 240 volts. Specify voltage when ordering.

1/4-INCH HEAVY-DUTY BALL-BEARING DRILL

Similar in appearance to 5/16" Drill shown below.

90% POWER INCREASE! A sturdy, perfectly balanced drill for constant service on production and heavy duty maintenance work. Die-cast aluminum housing with heavy-duty motor, gears and bearings. Plenty of power and long service built into this unit. Especially suited to driving Carbon Cleaning Tools. Armature and chuck mounted on ball-bearings. For frequent bit changing use model with Keyless Chuck.

Capacity: In Steel... up to 1/4" Weight: Net 6 1/2 lbs.
In Hardwood... up to 1/2" Shipping 8 lbs.
Speed: No-load... 2000 R.P.M. Overall Length 12"

Cat. No. 32 Geared chuck and key. (Specify Voltage)

Cat. No. 386 Keyless chuck

Special No-load Speeds:

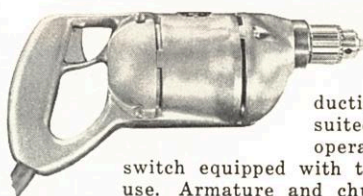
Cat. No. 32-14 Geared Chuck Unit with 1400 R.P.M.

Cat. No. 32-9 Geared Chuck Unit with 900 R.P.M.

Cat. No. 386-14 Keyless Chuck Unit with 1400 R.P.M.

Universal motor 115 or 220 volts. Also available, 125, 240 or 32 volts. Specify voltage when ordering.

5/16-INCH HEAVY-DUTY BALL-BEARING DRILL



90% POWER INCREASE! Designed for industrial production service and especially suited to lead hole drilling operations. Automatic release

switch equipped with thumb latch for optional use. Armature and chuck spindle mounted on ball bearings.

Capacity:

In Steel... up to 5/16" Weight: Net 6 3/4 lbs.
In Hardwood... up to 5/8" Shipping 8 1/4 lbs.
Speed: No-load... 1400 R.P.M. Length 12 1/2"

Cat. No. 360 Geared chuck and key. (Specify Voltage)

Cat. No. 387 Keyless chuck

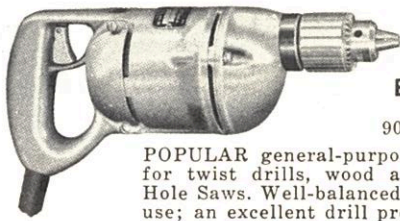
Special No-load Speeds:

Cat. No. 360-2 Geared Chuck Unit with 2000 R.P.M.

Cat. No. 360-9 Geared Chuck Unit with 900 R.P.M.

Cat. No. 387-2 Keyless Chuck Unit with 2000 R.P.M.

Universal motor A.C. or D.C. 115 or 220 volts. Also available, 125 or 240 volts.



3/8-INCH STANDARD BALL-BEARING DRILL

90% POWER INCREASE!

POPULAR general-purpose Drill of 3/8" capacity, for twist drills, wood augers, countersinks and Hole Saws. Well-balanced and shaped for portable use; an excellent drill press in Bench Stand.

Capacity: In Steel 3/8" Weight: Net 7 1/4 lbs.
In Hardwood 5/8" Shipping 9 lbs.
Speed: No-load 900 R.P.M. Length 12 1/2"
Cat. No. 490 3/8" Standard Drill (Specify Voltage)

Special No-load Speeds:

Cat. No. 490-1 1400 R.P.M.

Cat. No. 490-2 2000 R.P.M.

Universal motor A.C. or D.C. 115 or 220 volts. Also available, 125 or 240 volts.



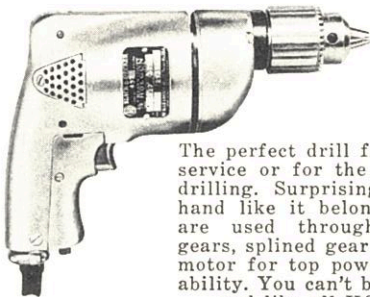
3/8-INCH STANDARD "HOLGUN"®

An ideal drill for the man who may occasionally do heavy-duty drilling but who does not need a continuous production-type tool. Anyone who demands a better quality tool at a moderate price will be more than satisfied with the dependable service offered in this New standard HOLGUN. Perfect for garages, body shops, maintenance crews, installation work, etc.

Drilling Capacity: in steel 3/8" Weight: Net 3 1/2 lbs.
in Hardwood 5/8" Shipping 4 3/4 lbs.
Speed: No-load 1100 R.P.M. Length 8-5/16"
Full-load 680 R.P.M.

Standard Equipment: 3-conductor cable and plug; 3-jaw Jacobs Geared Chuck and Key; Automatic-release Trigger Switch; B&D "Universal" Motor for 115 or 220 volts, A.C. or D.C. Also available, 125 or 240 volts. Specify voltage when ordering.

Cat. No. 653 3/8" Standard Holgun, Type A



3/8-INCH HEAVY-DUTY "HOLGUN"®

The perfect drill for continuous-production service or for the best in general-purpose drilling. Surprisingly compact — fits the hand like it belonged there. Ball-bearings are used throughout, with heat-treated gears, splined gear shafts, and a B&D-Built motor for top power and complete dependability. You can't beat this Drill for quality ... and like all HOLGUNS, it will not stall at rated capacity!

Capacity: In Steel up to 3/8" Weight: Net 3 3/4 lbs.
In Hardwood up to 5/8" Shipping 5 1/4 lbs.
Speed: No load 1000 R.P.M. Overall Length 8-11/16"

Standard Equipment: 3-Conductor cable and plug; 3-jaw Jacobs Geared Chuck and Key; trigger switch; B&D "Universal" Motor for 115 or 220 volts, 125 volts, or 240 volts available on special order.

Cat. No. 643 3/8" Heavy-Duty Holgun (Specify Voltage)

Special No-load Speed:—

Cat. No. 643-6 600 R.P.M. (Specify Voltage)

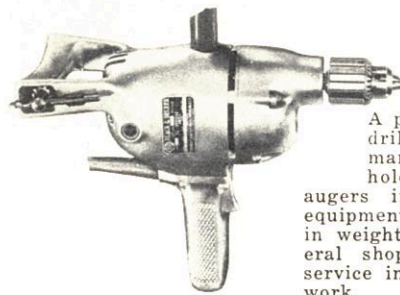
3/8-INCH HEAVY DUTY BALL-BEARING DRILL

Appearance and design features same as 1/2" Standard Drill shown in next column. Ideal for production drilling of 3/8" holes at high speed.

Capacity: In Steel 3/8" Speed: No-load 900 R.P.M.
In Hardwood 5/8" Length 13 1/2"
Weight: Net, 9 1/2 lbs.; Shipping, 11 lbs.

Standard Equipment—3-conductor cable and plug; 3-jaw geared threaded chuck and key; automatic-release trigger switch with locking pin; spade handle with key holder; detachable pipe handle; "universal" motor for 115 or 220 volts, A.C. or D.C. Also available, 125 or 240 volts.

Cat. No. 362 3/8" Heavy-Duty Drill (Specify Voltage)

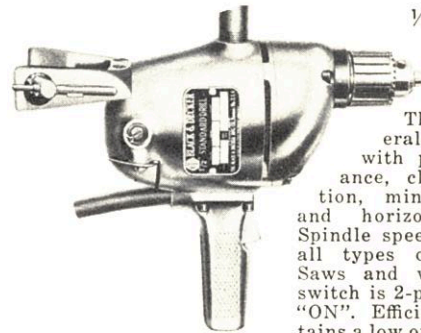


1/2-INCH SPECIAL DRILL

A practical, general-purpose drill with correct speed for many jobs, such as driving hole saws, twist drills, wood augers in the maintenance of equipment and appliances. Light in weight. Designed for the general shop and for intermittent service in repair and installation work.

Capacity: In Steel up to 1/2" Weight: Net 9 1/4 lbs.
In Hardwood up to 1" Shipping 12 lbs.
Speed: No-load 375 R.P.M. Length 13 1/2"
Cat. No. 38 1/2" Special Drill (Specify Voltage)

Universal motor A.C. or D.C. 115 or 220 volts. Also available, 125 or 240 volts.

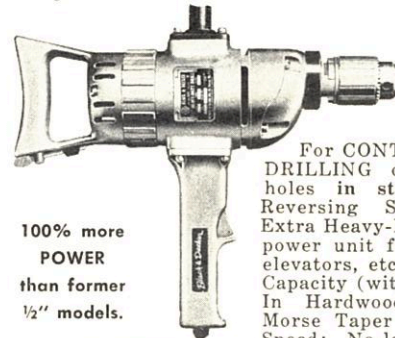


1/2-INCH STANDARD BALL-BEARING DRILL

The most popular general purpose Electric Drill with perfect operating balance, close-coupled construction, minimum spindle offset and horizontal spade handle. Spindle speed is ideal for driving all types of twist drills, Hole Saws and wood augers. Trigger switch is 2-pole and may be locked "ON". Efficient motor fan maintains a low operating temperature.

Capacity: In Steel up to 1/2" Weight: Net 9 3/4 lbs.
In Hardwood up to 1 1/8" Shipping 11 1/4 lbs.
No-load Speed 400 R.P.M. Length 13 3/4"
Cat. No. 361 1/2" Standard Drill (Specify Voltage)

Universal motor, A.C. or D.C. 115, 220 or 32 volts. Available on special order: 125 or 240 volts.



1/2" HEAVY-DUTY BALL-BEARING DRILL

For CONTINUOUS PRODUCTION DRILLING of up to 1/2" diameter holes in steel. Includes exclusive Reversing Switch-Ring. This 1/2" Extra Heavy-Duty Drill is perfect as a power unit for running hoists, light elevators, etc.

Capacity (with chuck): In Steel—1 1/2"; In Hardwood—1 1/2". (With No. 2 Morse Taper Socket): In Steel—3/4".
Speed: No-load—650 R.P.M. Rated load—475 R.P.M. Weight: Net—15 3/4 lbs.; Shipping—20 1/2 lbs. Length: 16 1/2"; Height: 13 3/4".

Standard Equipment: Reversing Switch-Ring, 2-pole "Instant-release" Switch with locking pin, Positive "Key-Drive" Taper Chuck with Key, B&D Universal Motor for 115 or 220 volts, A.C. or D.C. Spade handle with key holder, detachable pipe handle, 3-wire cable and plug.

Cat. No. 575 1/2" Heavy-Duty Drill (Type F)

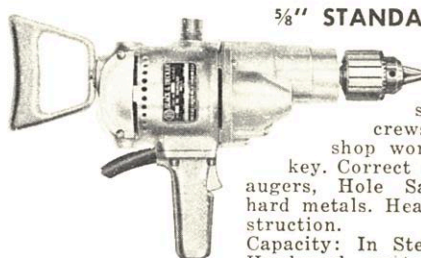
Cat. No. 575-9 900 R.P.M. Model (Rated load—610 R.P.M.) Optional (no extra charge) — No. 2 Morse Taper Socket instead of chuck

Replacement Chuck and Extra Equipment:—

Cat. No. 38231 "Key-Drive" Taper Chuck and Key

Cat. No. 1534-L Key only

Cat. No. 38791 No. 2 Morse Taper Socket



3/8" STANDARD BALL-BEARING DRILL

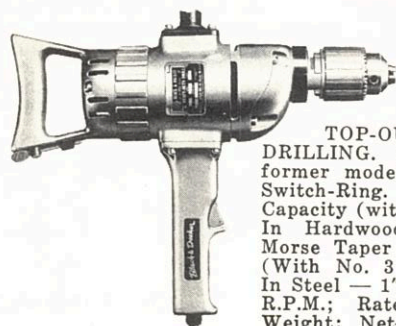
For garages, body shops, maintenance crews and general service shop work. Geared chuck and key. Correct speed for carbon bits, augers, Hole Saws, cylinder hones, hard metals. Heavy-Duty bearing construction.

Capacity: In Steel—5/32" to 3/8", in Hardwood—up to 1 1/8". No-load Speed: 300 R.P.M. Length: 18". Weight: Net, 17 lbs.; Shipping, 19 lbs.

Cat. No. 238 3/8" Standard Drill (Specify Voltage)



Black & Decker® THE COMPLETE LINE •



3/8-INCH HEAVY-DUTY BALL-BEARING DRILL

TOP-OUTPUT PRODUCTION DRILLING. 75% more power than former model. Has NEW Reversing Switch-Ring.
Capacity (with chuck): In Steel—5/8"; In Hardwood—1 3/4". (With No. 2 Morse Taper Socket): In Steel—3/4". (With No. 3 Morse Taper Socket): In Steel—1". Speed: No-load—450 R.P.M.; Rated-load—330 R.P.M. Weight: Net—16 1/4 lbs.; Shipping—20 1/2 lbs. Length: 16 1/2". Height: 13 1/2".

Standard Equipment: Reversing Switch-Ring, 2-pole "Instant-release" Switch with locking pin, Positive "Key-Drive" Taper Chuck with Key, B&D Universal Motor for 115 or 220 volts, A.C. or D.C. Spade handle with key holder, detachable pipe handle, 3-wire cable with plug.

Cat. No. 576 3/8" Heavy-Duty Drill (Type F)
Optional (no extra charge)—No. 2 or No. 3 Morse Taper Socket instead of chuck.

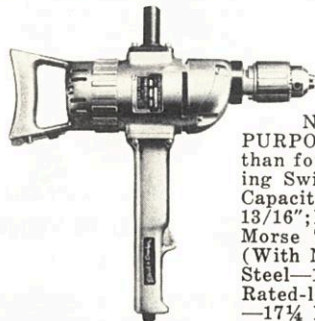
Replacement Chuck and Extra Equipment:—

Cat. No. 38233 "Key-Drive" Taper Chuck and Key

Cat. No. 1534-L Chuck Key only

Cat. No. 38790 No. 2 Morse Taper Socket

Cat. No. 38792 No. 3 Morse Taper Socket



3/4-INCH STANDARD BALL-BEARING DRILL

NEW, POWERFUL, GENERAL-PURPOSE DRILL. 130% more power than former model. Has NEW Reversing Switch-Ring.
Capacity (with chuck): In Steel—13/16"; In Hardwood—2". (With No. 2 Morse Taper Socket): In Steel—3/4". (With No. 3 Morse Taper Socket): In Steel—1". Speed: No-load—375 R.P.M.; Rated-load—275 R.P.M. Weight: Net—17 1/2 lbs.; Shipping—22 lbs. Length: 17 1/2"; Height: 16 1/2".

Standard Equipment: Reversing Switch-Ring, 2-pole "Instant-release" Switch with locking pin, Positive "Key-Drive" Taper Chuck with Key; B&D Universal Motor for 115 or 220 volts, A.C. or D.C. Spade handle with key holder, detachable pipe handle, 3-wire cable and plug.

Cat. No. 644 3/4" Standard Drill (Type F)

Optional—No. 2 or No. 3 Morse Taper Socket instead of Chuck.

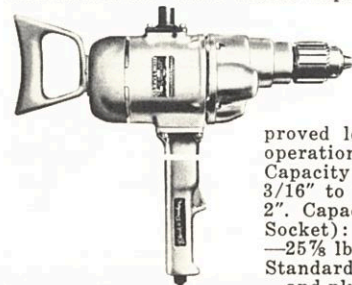
Replacement Chuck and Extra Equipment:—

Cat. No. 38494 "Key-Drive" Taper Chuck and Key

Cat. No. 9522-L Chuck Key only

Cat. No. 38790 No. 2 Morse Taper Socket

Cat. No. 38792 No. 3 Morse Taper Socket



3/4-INCH HEAVY-DUTY BALL-BEARING DRILL

Improved model with 25% MORE POWER — and NEW HANDLE for improved leverage and greater ease of operation.

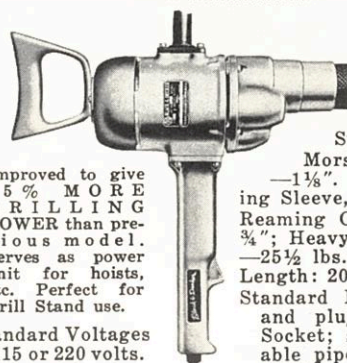
Capacity (with chuck): In Steel—3/16" to 13/16"; In Hardwood—up to 2". Capacity (With No. 3 Morse Taper Socket): In Steel—1 1/4". Weight: Net—25 1/2 lbs.; Ship.—30 lbs. Length: 21".

Standard Equipment: 3-wire cable and plug; 3-jaw geared chuck; automatic-release switch with locking pin; spade handle; detachable pipe handle; B&D-Built "Universal" Motor.

Optional: No. 2 or No. 3 Morse Taper Socket instead of chuck, no extra charge.

Standard Voltages: 115 or 220 volts (on special order—125 or 240 volts). Specify voltage when ordering.

Cat. No.	No-load Speed	Rated Load Speed	Rev. Switch
45	375 R.P.M.	250 R.P.M.	—
45-2	275 R.P.M.	175 R.P.M.	—
45-6	600 R.P.M.	390 R.P.M.	—
45-9	900 R.P.M.	580 R.P.M.	—
555	375 R.P.M.	250 R.P.M.	Yes
555-2	275 R.P.M.	175 R.P.M.	Yes
555-6	600 R.P.M.	390 R.P.M.	Yes
555-9	900 R.P.M.	580 R.P.M.	Yes



1" HEAVY-DUTY BALL-BEARING DRILL

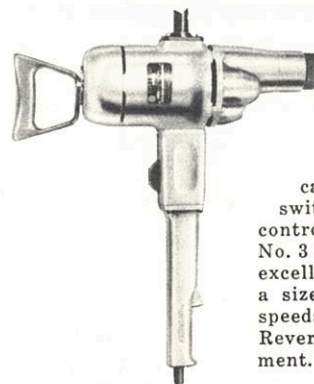
Drilling Capacity: In Steel—1"; (With No. 3 Morse Taper Socket): In Steel—1 1/8". (With 3-2 or 3-1 Reducing Sleeve, range is down to 1/8").
Reaming Capacity: Light—up to 3/4"; Heavy—up to 1". Weight: Net—25 1/2 lbs.; Shipping—29 1/2 lbs. Length: 20".

Standard Voltages—115 or 220 volts. (On special order—125 or 240 volts).

Standard Equipment: 3-wire cable and plug; No. 3 Morse Taper Socket; spade handle and detachable pipe handle; instant-release safety switch with locking pin; B&D-Built "Universal" Motor.

Cat. No.	No-load Speed	Rated Load Speed	Rev. Switch
47	350 R.P.M.	250 R.P.M.	—
47-2	275 R.P.M.	175 R.P.M.	—
47-6*	600 R.P.M.	390 R.P.M.	—
47-9*	900 R.P.M.	580 R.P.M.	—
556	350 R.P.M.	250 R.P.M.	Yes
556-2	275 R.P.M.	175 R.P.M.	Yes
556-6*	600 R.P.M.	390 R.P.M.	Yes
556-9*	900 R.P.M.	580 R.P.M.	Yes

*Available on Special Order—Write for delivery information.



1 1/4-INCH HEAVY-DUTY BALL-BEARING DRILL

B&D's largest, most powerful Drill with a full 1 1/4-inch capacity in steel. Extra long switch and pipe handles for best control. Drives twist drill bits with No. 3 Morse Taper shanks. Makes an excellent heavy-duty drill press in a size 80 Drill Stand. Available in speeds from 250 to 900 r.p.m. Reversing switch is standard equipment.

Weight: Net 32 lbs.
Shipping 37 1/2 lbs.
Capacity: In Steel 1 1/4"
With 3-2 or 3-1 Reducing Sleeve, Range is down to 1/8".
Length 20 1/2"
Reaming Capacity: Light up to 1"; Heavy up to 3/4".
Standard Voltages—115 or 220 volts. (On special order—125 or 240 volts.)
Specify voltage when ordering.

Cat. No.	No-load Speed	Rated Load Speed	Rev. Switch
494	250 R.P.M.	160 R.P.M.	—
494-3	350 R.P.M.	240 R.P.M.	—
494-6*	600 R.P.M.	380 R.P.M.	—
494-9*	900 R.P.M.	580 R.P.M.	—
557	250 R.P.M.	160 R.P.M.	Yes
557-3	350 R.P.M.	240 R.P.M.	Yes
557-6*	600 R.P.M.	380 R.P.M.	Yes
557-9*	900 R.P.M.	580 R.P.M.	Yes

*Available on Special Order—Write for delivery information.

Standard Voltage on all Drills this page — 115 volts or 220 volts. On special order 125 volts or 240 volts. Universal Motors for A.C. or D.C.



HORIZONTAL STANDS

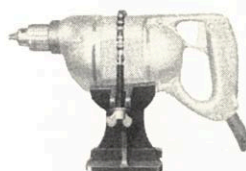
Frees both hands for applying the work in stationary drilling, reaming, and in using all types of wheels and abrasive accessories.

Cat. No. 39021

For 3/4" Special or 1/2" Standard HOLGUN Drills.

Cat. No. 23046

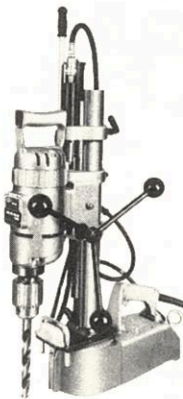
For 1/4" Standard, 1/4" H.D., 5/16" H.D. and 3/8" Standard Drills. Holds Drill securely by means of an adjustable chain.





Black & Decker® THE COMPLETE LINE •

¾" HEAVY-DUTY MAGNETIC DRILL PRESS



Unique, Exclusive Advantages when drilling or tapping iron or steel! This lightweight, 2-piece unit is easily carried to any place where conventional portable or stationary equipment would be difficult or impractical to use. It seats itself magnetically—upside down or at any angle on a ferrous metal thickness of ½" or more (back-up plates should be used on lighter gages). Drills by hand lever pressure, or by a convenient, remote control hydraulic hand pump.

Drill Capacity (in steel): Minimum—¼", Maximum—13/16". (Morse Taper Sockets can be used in place of drill chuck). Tapping Capacity (in steel): 13/16". Reaming Capacity (in steel): Light—¾", Heavy—½". Voltage: 115 or 220 volts, A.C. or D.C. Length of Drill Stroke: 12". Direct Magnetic Pull: 1850 lbs.; Drill Point Pressure Range (with base in horizontal position): 1100-1200 lbs. (on ½" thick flat steel).

Overall Height: 30¾"; Magnet Base Size—Length: 15½"; Width: 5½". Safety Chain Length: 5 ft.; Remote Control Hose Length: 6 ft. Magnet Unit Net Weight: 32½ lbs.; Drill Unit Net Weight: 28 lbs.

Standard Equipment: ¾" Standard Ball-Bearing Drill; "Universal" Motor; 3-conductor cable and plug; Magnet base; heavy-duty reversing switch-ring; safety chain; headlight; pilot light; drill point locator; and safety-grip trigger switch. Cat. No. 655 ¾" H.D. Magnetic Drill Press with Power Feed—without Drill Press Caddy—375 R.P.M. (Ship. Wt. 82 lbs.)

Optional Speeds—Available on Special Order. No. 655-4 450 R.P.M.; No. 655-6 600 R.P.M.; No. 655-9 900 R.P.M.

Cat. No. 674 ¾" H.D. Magnetic Drill Press without Power Feed or Drill Press Caddy—375 R.P.M. (Ship. Wt. 71 lbs.)

Optional Speeds—Available on Special Order. No. 674-4 450 R.P.M.; No. 674-6 600 R.P.M.; No. 674-9 900 R.P.M.

BUYING ADVANTAGE on following items:

Cat. No. 673 ¾" H.D. Magnetic Drill Press with Power Feed and Drill Press Caddy—375 R.P.M. (Ship. Wt. 116 lbs.)

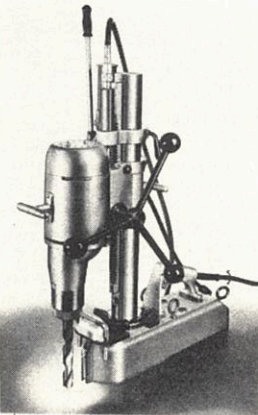
Optional Speeds—Available on Special Order. No. 673-4 450 R.P.M.; No. 673-6 600 R.P.M.; No. 673-9 900 R.P.M.

Cat. No. 675 ¾" H.D. Magnetic Drill Press Less Power Feed with Drill Press Caddy—375 R.P.M. (Ship. Wt. 105 lbs.)

Optional Speeds—Available on Special Order. No. 675-4 450 R.P.M.; No. 675-6 600 R.P.M.; No. 675-9 900 R.P.M.

Optional—No. 2 or No. 3 Morse Taper Socket instead of chuck, no extra charge.

1¼" HEAVY-DUTY MAGNETIC DRILL PRESS



This easily carried 2-piece unit handles drilling or tapping jobs in Iron or Steel in places where conventional portable or stationary equipment would be difficult or impractical to use. It seats itself magnetically—upside down or at any angle on a ferrous metal thickness of ½" or more (back-up plates should be used on lighter gages). Drills by hand lever pressure, or by a convenient, remote-control hydraulic hand pump. Used for: Shipbuilding & Repair, Mfg. of Boilers & Tanks, Large Jig & Die Work, Structural Steel Fabrication, Mfg. of Heavy Machinery, Sheet Metal Fabrication, Welding and Repair Shops, and Heavy Construction.

Drilling Capacity (in steel): 1¼". (With 3-2 or 3-1 Reducing Sleeve, range is down to ¾"). Tapping Capacity (in steel): 1". Reaming Capacity (in steel): Light—1" Heavy—¾". Voltage: 115 or 220 volts, A.C. or D.C. Direct Magnetic Pull: 3000 lbs.; Length of Drill Stroke: 15". Drill Point Pressure Range (with base in horizontal position): 1800-2000 lbs. (on ½" thick steel). Overall Height: 31"; Magnet Base Size—Length: 18¾"; Width: 4-13/16". Safety Chain Length: 5 ft.; Remote Control Hose Length: 6 ft.; Magnet Unit Net Weight: 53 lbs.; Drill Unit Net Weight: 46 lbs.; Hydraulic Hand Pump Net Weight: 9 lbs.

Standard Equipment: 1¼" Heavy-Duty Ball-Bearing Drill with No. 3 Morse Taper Socket; "universal" motor; 3-conductor cable and plug; magnet base; heavy-duty reversing switch; remote control hydraulic hand pump; safety chain; headlight; pilot light; drill point locator; and safety-grip trigger switch.

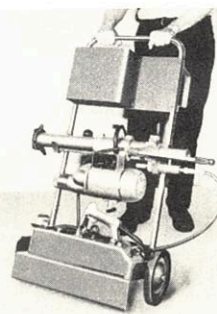
Cat. No. 633 1¼" H.D. Magnetic Drill Press with Power Feed—without Drill Press Caddy—250 R.P.M. (Ship. Wt. 120 lbs.)

Optional Speeds—Available on Special Order. No. 633-3 350 R.P.M.; No. 633-6 600 R.P.M.; No. 633-9 900 R.P.M.

BUYING ADVANTAGE on following item:

Cat. No. 672 1¼" H.D. Magnetic Drill Press with Power Feed and Drill Press Caddy—250 R.P.M. (Ship. Wt. 154 lbs.)

Optional Speeds—Available on Special Order. No. 672-3 350 R.P.M.; No. 672-6 600 R.P.M.; No. 672-9 900 R.P.M.



DRILL PRESS CADDY

Easily transports ¾" or 1¼" Magnetic Drill Press to any work location. Made of chromium plated tubular steel. Has two large rubber tires. Top compartment for accessories. Std. Equip. with Cat. Nos. 672, 673 and 675.

Cat. No. 39349 Drill Press Caddy (Ship. Wt. 34 lbs.)

POWER FEED PUMP

Permits operator to control drilling while standing as far away as 6 ft. from Magnetic Drill Press.

Std. Equip. with Cat. Nos. 633, 655, 672 and 673. Cat. No. 39328 Feed Pump (Ship. Wt. 10¼ lbs.)

BENCH DRILL STANDS

Increase the usefulness of B & D Drills, Screw Drivers and Tapping by converting the portable unit to a drill press for heavy-duty work. Available for all sizes.

¼-INCH BENCH DRILL STAND

Fits ¼" Special (new type "D"), and new ¼" or ¾" Standard Holguns. Net Wt., 8 lbs.; Ship., 10 lbs. Cat. No. 39020

SIZE 20 BENCH DRILL STAND (Type C)

Fits ¼" & ¾" Heavy-Duty Holgun, ¼" Special (types "A", "B", "C"), ¼" Standard, ¼" Heavy-Duty, 5/16" Heavy-Duty, ¾" Standard; the SCRUGUN, TAPGUN, No. 14 and No. 18 Screw-Drivers and ¼" Tapper. Maximum feed is 2"; from C/L Bit to C/L Column is 5¼". Net Weight, 11 lbs.; Shipping, 14 lbs. Cat. No. 22148

SIZE 40 BENCH DRILL STAND (Type C)

Fits ¾" Heavy-Duty, ½" Special, ½" Junior, ½" Standard Drills, Maximum feed is 4"; from C/L Bit to C/L Column is 6". Net Weight—17 lbs.; Shipping—20 lbs. Cat. No. 22145

SIZE 60 BENCH DRILL STAND (Type A)

Fits all Black & Decker side-handle Drills from ½" Heavy-Duty to the 1" Heavy-Duty. Maximum feed is 4"; from C/L Bit to C/L Column is 8". Net Weight, 50 lbs.; Shipping, 59 lbs. Cat. No. 13857

SIZE 80 BENCH DRILL STAND (Type A)

Fits the 1¼" Heavy-Duty Drill only. Maximum feed is 4"; from C/L Bit to C/L Column is 12". Net Weight, 83 lbs.; Ship., 98 lbs. Cat. No. 26607

RIGHT ANGLE DRILLING ATTACHMENTS for Drills (Type B)



To reach out-of-the-way places in work on joists, etc. Equipped with 3-jaw Geared Chuck, ½" capacity.

No. 23574 For ½" Junior and ½" Special
No. 17819 For ½" Standard or ¾" Heavy-Duty
No. 17820 For ½" H.D. (A to E) and ¾" Standard Drills

No. 39271 For ½" H.D., ¾" H.D. and ¾" Standard (types F).

FEED SCREW ATTACHMENTS



For use in confined spaces which prohibit hand pressure. Attaches to Drill at spade handle and provides constant, steady feeding pressure on Drill.

Cat. No. 38837 For ½" H.D., ¾" H.D., and ¾" Std. (Type F) Drills

No. 22555 For ½" Heavy-Duty (types B to E) Drills

No. 19930 For ¾" Std. (D) and ¾" Std. (E) Drills

No. 19960 For ¾" H.D. (type E to L); ¾" H.D. (types B to H); 1" H.D. (types B to H); 1¼" H.D. (type E) Drills

No. 16962 For ¾" H.D. (types B, C, D) Drills

EXTENSION CORD

Rubber Covered with Plug and Receptacle. For 125 Volt max.

Cat. No. 39019 25 ft. long, No. 16 gage, 13 Amperes

Cat. No. 11949 50 ft. long, No. 14 gage, 18 Amperes



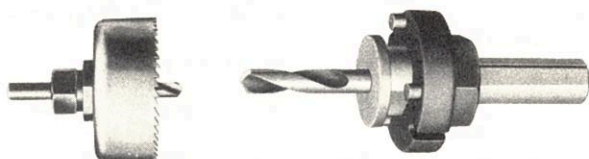
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HOLE SAWS

Black & Decker Hole Saws will cut clean, round holes in any material a hack saw will cut. For long life on production hole cutting, we recommend the super quality of High Speed Hole Saws.

Saw Out- side Diam.	HIGH SPEED HOLE SAWS			For Con- duit Sizes	For Pipe Tap Sizes
	Cat. No.	Use with Mandrels			
		For 1½" or Larger Drills	For ¼", ⅝" or ⅜" Drills		
⅝"	36468	*	*		
¾"	21747	14903	22181	⅜"	
⅞"	21748	14903	22181	½"	
1⅜"	21749	14903	22181		¾"
1"	21771	14903	22181		
1⅛"	22809	14903	22181		
1⅜"	21772	14903	22181	¾"	
1⅜"	21773	14903	22181		1"
1¾"	21781	14904	22182		
1⅞"	21782	14904	22182	1"	
1⅞"	21783	14904	22182		1¼"
1⅞"	21784	14904			
1¾"	21785	14904		1¼"	1½"
1⅞"	21786	14904			
2"	21787	18028		1½"	
2⅛"	21788	18028			
2⅛"	21789	18028			
2¼"	21790	18028			2"
2⅜"	21791	18028			
2½"	21792	18028		2"	
2⅝"	21793	18028			
2¾"	21794	18028			2½"
2⅞"	21795	18028			
3"	21796	18028		2½"	
3⅜"	21797	18028			
3¼"	21798	18028			3"
3½"	21799	18028		3"	
3⅝"	27166	18028			
3¾"	36454	18028			
3⅞"	36455	18028			
4"	21800	18028		3½"	

*5/8" Hole Saw has built-in Mandrel; no separate Mandrel supplied.



**High Speed Hole Saw Mandrels
for 1/4", 5/16" and 3/8" Drills**

(For Use Only with High Speed Hole Saws)

Cat. No. 22181 Mandrel with Pilot Drill (to fit 3/4" to 1-3/16" Hole Saws)

Cat. No. 22182 Mandrel with Pilot Drill (to fit 1 1/4" to 1 1/2" Hole Saws)

Cat. No. 22192 Pilot Drill only, for above Mandrels

for 1/2" and larger Drills

Cat. No. 14903 Mandrel with Pilot Drill (to fit 3/4" to 1-3/16" Hole Saws)

Cat. No. 14904 Mandrel with Pilot Drill (to fit 1 1/4" to 1 1/2" Hole Saws)

Cat. No. 18028 Mandrel with Pilot Drill (to fit 2" to 4" Hole Saws)

Cat. No. 14935 Pilot Drill only, for above Mandrels

Special Hole Saws

Special Depth Hole Saws — for home insulation and other special uses; coarse-tooth Hole Saws with 1 1/4" depth-of-cut; require special mandrels as listed below:

Cat. No. 24576 2 1/2" Diameter Special Depth Hole Saw

Cat. No. 24578 Special Mandrel with Pilot Drill

Cat. No. 24577 Pilot Drill for No. 24578 Mandrel

DRILL CHUCKS and KEYS



Chuck Size **	Chuck Only		Key Only	Used on These Units
	B&D Cat. No. (Jacobs No.)	Supreme No.	B&D Cat. No. (Jacobs No.)	
3/64" Th.	23224 (1BS)		3030-T (K1)	3/64" Hornet (type A)
1/4" Th.	45372 (1B)		3030-T (K1)	3/64" Utility; 1/4" All-Purpose; 5/8" Sander-Polisher; 1/4" Special (D); 1/4" Std. Holgun (E)
1/4" Th.	23226 (1B-3/8-24)		3030-T (K1)	Shorty Drills (all types)
1/4" Ta.	1A		3030-T (K1)	1/4" Junior (B); 1/4" Special (A) (B); 1/4" Junior (A)
1/4" Ta.	7705 (7)		7705-L (K7)	1/4" Heavy-Duty (A to G)
1/4" Th.	23227 (7B-1/2-20)		7705-L (K7)	1/4" Heavy-Duty (H to M); 1/4" Standard (B, C, CF, CSP, D)
1/4" Th.	23762 (7B-3/8-4) 4A		7705-L (K7) 4	1/4" Holgun (B)
5/16" Th.	23228 (30B-1/2-20)		6133-L (K30)	All 1/4" H.D. Holguns
5/16" Ta.	*32376 (421-01)			5/16" Utility; 5/16" H.D. (L to T)
3/8" Th.	23229 (32B)		4794-L (K32)	5/16" (No. 8) Tapgun, 5/16" Tapgun
3/8" Th.	36544 (MC4-AD) H13A		6133-L (K30)	5/8" Standard (all types); 5/8" Utility (M to U); 5/8" H.D. (N to T)
3/8" Th.	26299 (2B)		1536-L (K2)	5/8" Standard Holgun (A)
3/8" Ta.	7244 (32 regular)		4794-L (K32)	5/8" H.D. Holgun
3/8" Ta.	4794 (32 hollow)			5/8" Utility (K, L)
1/2" Th.	*32377 (441-02)			1/2" (No. 22)
1/2" Th.	36242-C (MC-10) H5B		4794-L (K32) 5	No. 2 Tappers (Std.)
1/2" Th.	23230 (33B-1/2-20)		4794-L (K32)	1/2" (No. 22)
1/2" Ta.	5B			No. 2 Tappers (Spl)
1/2" Ta.	15839 (33)		4794-L (K32)	1/2" Special (F); 1/2" Util. (A)
1/2" Ta.	9480 (34)		1534-L (K3)	1/2" Junior (B); 1/2" Std. (B); 1/2" Utility (E, F); 1/2" Spl. (E)
1/2" K.D.	38231 (34KD)		1534-L (K3)	1/2" Junior (A)
1/2" Ta.	11329 (3A)		1534-L (K3)	1/2" H.D. (A to E); 1/2" Spl. (C, D)
5/8" K.D.	38333 (3KD)		1534-L (K3)	1/2" H.D. (F)
5/8" Ta.	9522 (36)		9522-L (K4)	1/2" Std. (D); 5/8" Util. (A); 5/8" H.D. (A to D)
3/4" K.D.	45171 (37KD)		9522-L (K4)	5/8" H.D. (F)
				5/8" Std. (E); 3/4" Util. (A); 3/4" H.D. (all)
				3/4" Std. (F); 3/4" H.D. Magnetic Drill Press

*Includes chuck with nut and body wrench, and hex-key.

**Th.= Threaded; Ta.= Tapered; K.D.= Key-Drive

KEYLESS CHUCKS

Permit complete tightening of chuck jaws by hand. Particularly useful when frequent bit changes are necessary. For following Drills—1/4" H.D. (Types H to N), 1/4" Std., 5/16" H.D. (L to T), 5/8" H.D. (N to T), 1/2" Junior (B), 1/2" Standard (B), 1/2" Spl. (E).

Cat. No. 34043 Keyless Chuck — 0" to 1/4" capacity — Threaded 1/2"-20

Cat. No. 36097 Keyless Chuck — 0" to 5/16" capacity — Threaded 1/2"-20

MORSE TAPER EQUIPMENT

Cat. No. 10601 3/4" Chuck with No. 3 M. T. A., to fit 1" and 1 1/4" Drills

Cat. No. 10949 No. 3 Morse Taper Arbor only

Cat. No. 12186 No. 2 Morse Taper Socket for 1/2" H.D.

Cat. No. 11067 No. 2 Morse Taper Socket for 5/8" and 3/4" Drills

Cat. No. 12849 No. 3 Morse Taper Socket for 5/8" and 3/4" Drills

Cat. No. 38790 No. 2 Morse Taper Socket (fits 5/8" H.D. & 3/4" Std. (F) Drills and 3/4" Mag. Drill Press)

Cat. No. 38791 No. 2 Morse Taper Socket (fits 1/2" H.D. Drill)

Cat. No. 38792 No. 3 Morse Taper Socket (fits 5/8" H.D. & 3/4" Std. (F) Drills & 3/4" Mag. Drill Press)

RUBBER-FLEX CHUCK KEY HOLDER

Attaches to cable by slipping its "noose" over cable plug.

Cat. No. 34518 For Keys Nos. 3030-T, 7705-L, 39025

Cat. No. 34519 For Keys Nos. 6133-L, 4794-L



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LUBRICANTS

For DRILLS, TAPPERS, SCREW DRIVERS, SANDERS, POLISHERS, PORT. GRINDERS, SAWS AND SHEARS—

- No. 23638 1 lb. Can of Standard Gear Grease
- No. 23639 2 lb. Can of Standard Gear Grease
- No. 32907 5 lb. Can of Standard Gear Grease

For HAMMERS—

- No. 22926 4 oz. Can Lubricating Oil
- No. 22930 1 Pound Can Lubricating Oil
- No. 22931 2 Pound Can Lubricating Oil
- No. 32906 5 Pound Can Lubricating Oil
- No. 36391 1 lb. Can Hammer Gear Grease
- No. 36392 2 lb. Can Hammer Gear Grease
- No. 36393 5 lb. Can Hammer Gear Grease

For VALVE REFACER

- No. 34976 Hypoid Gear Oil—9 oz. Can

For VIBRO-CENTRIC VALVE SEAT GRINDERS—

- No. 30129 1 Pint Container of Centric Grease
- No. 30130 1 Quart Container of Centric Grease
- No. 30131 1 Gallon Container of Centric Grease

For IMPACT WRENCHES—

- No. 38276 1½ lb. Can Impact Wrench Grease

WHEEL ARBORS AND RUBBER BACKING PAD



Fit ¼" to ½" Drills. Carries grinding wheels, wire wheel brushes and buffing wheels.

- Cat. No. 39026 ¼" Drill Arbor (½" Diam., ¼" Shank)
- Cat. No. 8449 ½" Drill Arbor (½" Diam., ½" Shank)
- Cat. No. 23041 Sanding Pad Arbor (⅝" — 11 thread, ¼" Shank) holds No. 33489 Rubber Pad listed below
- *Cat. No. 33489 5" Rubber Backing Pad with Clamp Washer for use with No. 23041 Arbor

*For backing up discs, bonnets and pads.



GRINDING AND BUFFING WHEELS

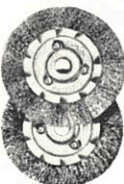
- Cat. No. 39024 3"x½"x½" Medium Grade Grinding Wheel

See page 15 for larger Grinding Wheels for Bench Grinders, etc.



- Cat. No. 39015 3"x⅝"x½" Cotton Buff

Cotton Buffs come in larger sizes for Portable Grinders and Bench Grinders. See Form 1 Catalog.



WIRE WHEEL BRUSHES

The 4" Brushes listed below are perfect for use with ¼" Drills in cleaning and removing rust, scale or old paint. 6" Brushes fit 6" Bench Grinder Spindles.

Available in quality wire of Fine and Coarse sizes, in 4" or 6" diam. wheel. Each tuft is locked independently—giving an even brushing surface and less danger of loose wire. Brushes have ½" arbor hole.

- No. 39008 4" Fine Brush
- No. 39009 4" Coarse Brush

- No. 39010 6" Fine Brush
- No. 39011 6" Coarse Brush
- No. 39012 6" 2-Section Coarse Brush

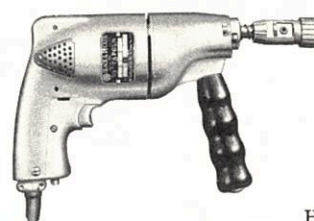
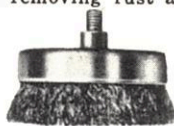
See Page 15 for larger brushes for Bench Grinders, etc.

3" WIRE CUP BRUSH

Use ¼" Special, or ¼" Standard Holgun Drills with No. 39013 Wire Cup Brush screwed directly into the spindle, (or No. 39014 fitted into any ¼" Drill Chuck) for removing rust and scale from all metal surfaces, for taking off old paint and for cleaning castings and structural metal.

- Cat. No. 39013 (Threaded)
- Cat. No. 39014 (Plain Shank)

Wire Cup Brushes for use with "production" Sanders on page 13.



¼" TAPGUN®

This is the latest, improved version of the popular B&D Tapgun. Automatic reversing mechanism backs tap out of threaded hole at high speed when operator pulls backward — no reversing switch is needed. Tapping Chuck with 2 collets and Removable Side Handle are standard equipment.

- Tapping Capacity: In mild steel..... ¼"
- In Cast Iron..... 5/16"
- In brass or aluminum..... ½"
- Weight: Net..... 4½ lbs.; Shipping..... 6 lbs.
- Overall Length: 10¼" (including tap chuck)
- No-load spindle speed: Tapping — 400 R.P.M.; Reversing — 525 R.P.M.
- Standard Equipment—Jacobs tap chuck with two collets (0" to ¼" and ¼" to .381), 3-conductor cable and plug, "universal" motor.
- Standard Voltages — 115 or 220. On special order 125 or 240
- Cat. No. 586 ¼" Tapgun (Specify Voltage)

No. 8 ADJUSTABLE CLUTCH SCRUGUN®

Ideal for use with Power Speed Control Unit listed on page 8.



Quality-built, throughout, for high production service. This high-powered center-drive Scrugun is the lightest, most compact tool we have ever built for driving up to No. 8 size screws. Drives varying size screws to a uniform degree of tightness.

- Capacity: Wood Screws..... up to No. 8 x 1¼"
- Machine Screws and Nuts..... up to No. 8
- Self-Tapping Screws..... up to No. 8
- No-load Spindle Speed..... 3000 R.P.M.
- Weight: Net—2⅞ lbs.; Shipping—4 lbs.; Length—11½"

Standard Voltage—115. Available on Special Order: 125, 220, or 240 volts—Write for delivery information. Specify voltage when ordering.

- Cat. No. 578 With paddle switch
- Cat. No. 580 With paddle switch and reversing switch
- Cat. No. 579 With toggle switch in end cap
- Cat. No. 581 With toggle switch and reversing switch

No. 10 POSITIVE CLUTCH SCRUGUN®

Compact Power Driver for production assembly. Ideal for suspended use; has a bonnet grip or paddle switch—no handle needed.

- Capacity: Wood Screws—up to No. 10 x 2"; Self Tapping Screws—up to No. 12; Machine Screws and Nuts—up to No. 12.

- No-load Speed—750 R.P.M.*
- Net Weight..... 4½ lbs.; Shipping..... 6½ lbs.
- Overall Length (including bit)..... 12"

Standard Voltage—115. Available on Special Order: 125, 220, or 240 volts—Write for delivery information. Specify voltage when ordering.

- *Special Speeds (500, 1250, or 1600 R.P.M.) available on Special Order—Write for delivery information.
- Cat. No. 403 With bonnet grip
- Cat. No. 404 With paddle switch
- Cat. No. 606 With bonnet and Rev. Sw.
- Cat. No. 607 With paddle and Rev. Sw.

No. 10 ADJUSTABLE CLUTCH SCRUGUN®

- Capacity: Self-tapping screws..... up to No. 12
- Machine screws..... up to No. 12
- Wood Screws..... up to No. 10 x 2"

- No-load Standard Speed..... 750 R.P.M.
- Weight: Net..... 5 lbs.; Shipping..... 6½ lbs.
- Overall Length (including bit)..... 13½"

Standard Voltage—115. Available on Special Order: 125, 220, or 240 volts—Write for delivery information. Specify voltage when ordering.

- *Special Speeds (500, 1250, or 1600 R.P.M.) available on Special Order—Write for delivery information.
- Overall length (including bit)..... 13½"
- Cat. No. 380 With bonnet grip
- Cat. No. 381 With paddle switch
- Cat. No. 608 With bon. grip and Rev. Sw.
- Cat. No. 609 With paddle and Rev. Sw.

STANDARD EQUIPMENT for Positive, Adjustable Clutch Scruguns—3-wire cable and plug; No. 13207 bit with protector, centering and spring sleeves.





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No. 10 PISTOL-GRIP SCRUGUN®



Latest B&D SCRUGUN with "Pistol-Grip" and new "Top-Control" Reversing Switch. Ideal for moving in and around work for larger assembly or disassembly operations. See table below for variety of models to meet your need.

Capacity: Wood Screws up to No. 10 x 2"
Machine Screws up to No. 12
Self-Tapping Screws up to No. 12
No-load Standard Speed 800 R.P.M.
Standard Equipment: 3-wire cable and plug,
No. 13207 Bit with protector, centering and
spring sleeves, B&D "Universal" Motor for
115 or 220 volts, (other voltages available
on special order.) Specify voltage.

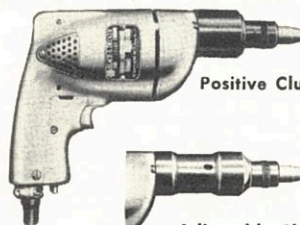
Cat. No.	Type Clutch	Reversing Switch	No-Load Speed	Overall Length	90°-Angle Head	Net Weight	Shipping Weight
627	Positive	—	800 rpm*	9 1/4"	—	3 3/4 lbs.	5 1/4 lbs.
630	Positive	Yes	800 rpm*	9 1/4"	—	3 3/4 lbs.	5 1/4 lbs.
628	Adjustable	—	800 rpm*	10 3/4"	—	4 lbs.	5 1/2 lbs.
631	Adjustable	Yes	800 rpm*	10 3/4"	—	4 lbs.	5 1/2 lbs.
629**	Adjustable	—	600 rpm†	11 3/4"	No. 105	4 1/4 lbs.	6 lbs.
629**	Adjustable	—	600 rpm†	11 3/4"	No. 157	4 1/4 lbs.	6 lbs.

*Special Speed—1300 R.P.M.

†Special Speed—1000 R.P.M.

**Specify type of Angle Head when ordering.

Cat. No. 656 Automotive Trim Shop Assortment
(See B&D Form No. 18 for complete information).



Positive Clutch



Adjustable Clutch

No. 12 SCRUGUN®

These later model Scruguns have increased motor power, a handle shaped for more finger room, a removable cover for easy inspection of commutator and brushes, and cartridge-type brush holders to facilitate brush replacement. Come in Positive Clutch and Adjustable Clutch models.

No. 12 POSITIVE CLUTCH SCRUGUN®

In Positive Clutch Scruguns the spindle idles to permit engaging the fastener. Operating pressure closes the clutch and the tool keeps driving until the resistance of the fastener overcomes hand pressure... operator controls tightness by amount of pressure applied. Ideal for "free-hand" driving.

Capacity: Wood Screws up to No. 12 x 2"
Self-Tapping Screws up to 1/4"
Lag Screws up to 3/16" x 2"
Machine Screws and Nuts up to 1/4" diam.

No-load Standard Speed 600 R.P.M.*
Weight: Net 3 3/4 lbs.; Shipping 5 1/4 lbs.
Length (including bit) 9"

Standard Equipment: 3-wire cable and plug; No. 15475 bit with centering sleeves; "universal" motor.

Optional Equipment: Available on special order at no increase in price—3 jaw 25° clutch especially designed for heavy-duty driving of wood screws.

Standard Voltage—115 or 220. On special order 125 or 240 volts.

Cat. No. 402 (Specify Voltage)

Cat. No. 572 With Reversing Switch (Specify Voltage)

*Special speeds—1000 R.P.M. or 1700 R.P.M.

No. 12 ADJUSTABLE CLUTCH SCRUGUN®

Adjustable Clutch Scruguns are the same as Positive Clutch models listed above except for the addition of a secondary clutch. On jobs where uniform tightness of fasteners is desirable (to meet specifications or prevent damage by driving fasteners too tight), the secondary clutch will disengage when the resistance of the fastener overcomes its pre-set spring load. Thus, automatically, each fastener is driven to a pre-determined, uniform tightness regardless of pressure applied. Capacity, speeds, voltage and standard equipment same as No. 12 Positive Clutch Scrugun.

Net Weight 4 lbs.; Shipping 5 1/4 lbs.
Overall Length (including bit) 10 3/4"

Cat. No. 350 (Specify Voltage)

Cat. No. 573 With Reversing Switch (Specify Voltage)

90° HEADS ARE AVAILABLE FOR NO. 10 AND NO. 12 SCRUGUNS; NO. 14 AND NO. 18 DRIVERS. SEE MASTER CATALOG FOR COMPLETE DATA.

POWER-SPEED CONTROL FOR ADJUSTABLE CLUTCH SCRUGUNS



Permits small, more delicate, screw assembly operations to be performed ELECTRICALLY with CONTROLLED PRECISION. It harnesses the electric power that goes into B&D Scruguns... enables operator to regulate driving power over an infinite number of "torque and speed steps" to suit the most fragile screw driving applications — from finger lightness to wrench tightness. For 115 volts, 50-60 cycle AC only.

Cat. No. 38250 Power-Speed Control

Use with No. 8, No. 10 Center-drive, No. 10 Pistol-Grip, and No. 12 Scruguns.

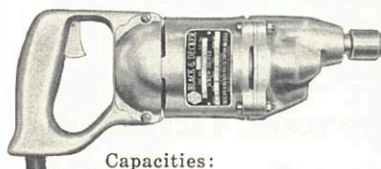
Cat. No. 635 Power-Speed Con. with No. 578 Scrugun

Cat. No. 636 Power-Speed Con. with No. 579 Scrugun

Cat. No. 637 Power-Speed Con. with No. 580 Scrugun

Cat. No. 638 Power-Speed Con. with No. 581 Scrugun

No. 14 and No. 18 SCREW DRIVERS



Nos. 14 and 18 Screw Drivers are capable of constant production in screw driving operations in metal or wood, nut tightening, body work, assembling, etc.

Capacities:	No. 14	No. 18
Wood Screws	14 x 2 1/2"	18 x 3 1/2"
Self-tapping Screws	5/16" Dia.	3/8" Dia.
Lag Screws	1/4" x 2"	5/16" x 3"
Machine Screws and Nut	3/8" Dia.	1/2" Dia.

Standard No-load Speed 500 R.P.M.*

Standard Voltage—115, 125, 220, or 240 volts available on Special Order—Write for delivery information.

No. 14 POSITIVE CLUTCH DRIVER

Pin-type clutch permits spindle to idle until bit finds screw slot. Throws out when operating pressure is released.

Net weight, 6 1/2 lbs.; overall length, 13 1/4"; shipping, 8 1/2 lbs.

Cat. No. 53 (Specify Voltage)

Cat. No. 563 With Reversing Switch (Specify Voltage)

*Special Speeds (750, 1000 or 1600 R.P.M.) available on Special Order—Write for delivery information.

13° or 30° Clutch instead of Standard angle is also available on special order.

No. 14 ADJUSTABLE CLUTCH DRIVER

Adjustable clutch adapts driving torque to specific operation, insuring uniform results. Spindle idles until operating pressure is applied.

Net weight, 8 lbs.; overall length, 15 1/2"; shipping, 11 1/4 lbs.

Cat. No. 169 (Specify Voltage)

Cat. No. 564 With Reversing Switch (Specify Voltage)

*Special Speeds (750, 1000 or 1600 R.P.M.) available on Special Order—Write for delivery information.

No. 18 POSITIVE CLUTCH DRIVER

Positive clutch permits spindle to idle until operating pressure engages clutch jaws. Kicks out when pressure is released.

Net weight, 9 lbs.; overall length, 14 1/4"; shipping weight, 11 1/2 lbs.

Cat. No. 54 (Specify Voltage)

Cat. No. 566 With Reversing Switch (Specify Voltage)

*Special Speeds (750, 1000 or 1600 R.P.M.) available on Special Order—Write for delivery information.

No. 18 ADJUSTABLE CLUTCH DRIVER

Selectivity of adjustable clutch and power of this unit ideal for tough production work. Clutch automatically releases each screw at uniform depth. Spindle idles until pressure is applied.

Net weight, 10 1/2 lbs.; overall length, 17 1/4"; shipping weight, 14 1/2 lbs.

Cat. No. 164 (Specify Voltage)

Cat. No. 567 With Reversing Switch (Specify Voltage)

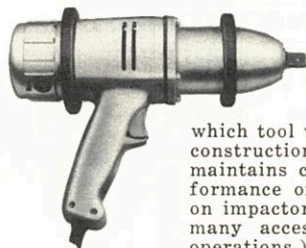
*Special Speeds (750, 1000 or 1600 R.P.M.) available on Special Order—Write for delivery information.

See pages 10 and 11 for Shanks, Bits, Finders, and Sockets for Scruguns and Screw Drivers.



Black & Decker® THE COMPLETE LINE •

No. 100 HEAVY-DUTY IMPACT WRENCH



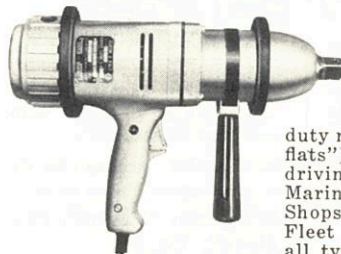
Delivers 1800 high intensity impacts per minute and cannot be stalled or overloaded. Special B&D-Built Motor—engineered especially for the rugged applications for which tool was designed. Patented armature construction absorbs shock. Centrifugal fan maintains cool operating temperature. Performance of wrench is unaffected by wear on impactor or anvil. (See next column for many accessories for a wide variety of operations.)

Capacity: $\frac{1}{2}$ " Bolt Diameter; No-load Speed: 1800 R.P.M.; Impacts per minute: 1800; Drive-Square Spindle Size: $\frac{1}{2}$ "; Length: $11\frac{1}{2}$ "; Weight: Net—7 lbs.; Shipping—10 lbs. B&D Universal Motor for 115 or 220 volts, A.C. or D.C. 125 or 240 volts on special order.

Standard Equipment: 2-pole "Instant-release" trigger switch; reversing switch; 2 Hex Sockets ($\frac{3}{4}$ " & $1\frac{1}{2}$ "); 3-wire cable and plug, 2 rubber protector rings. Specify voltage.

Cat. No. 624 "No. 100" H. D. Impact Wrench, Type B.

No. 300 HEAVY-DUTY IMPACT WRENCH

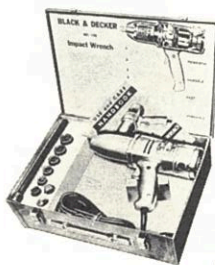


More power, greater capacity, higher torque! Designed to withstand the hard usage and shock of continuous impact driving. Ideal for large, heavy-duty nut running ($\frac{3}{4}$ " to $1\frac{1}{2}$ " "across flats"), as well as cap and lag screw driving and removal. Perfect for Marine Engine Work, Railroad Shops, Body and Boat Builders, Fleet Shops, Aircraft Industry, and all types of heavy-duty Production, Construction and Repair work. (See

next column for many accessories for a wide variety of operations).

Capacity: Bolts to $\frac{7}{8}$ " diameter; No load Spindle Speed: 1700 R.P.M.; Impact per Minute (under load): 1600; Drive Square—Spindle Size: $\frac{3}{4}$ "; Length: $14\frac{1}{4}$ "; Net Weight: $12\frac{3}{4}$ lbs.; Shipping Weight: $14\frac{1}{2}$ lbs.; B&D Built Motor for 115 or 220 volts, A.C. or D.C. (125 or 240 volts available on special order). Standard Equipment: 2-pole "Instant-Release" Trigger Switch, Positive-control reversing switch; auxiliary side handle, 2 rubber protector rings, 3-conductor cable and plug. Specify voltage when ordering.

Cat. No. 625 "No. 300" Heavy-Duty Impact Wrench, Type A.



No. 645 HEAVY-DUTY IMPACT WRENCH KIT

A lower priced Kit with the most frequently used accessories. Kit includes: 1—"No. 100" H.D. Impact Wrench; 1—No. 33410 Universal Joint; 1—No. 38311 Adaptor ($\frac{1}{2}$ " Female— $\frac{5}{8}$ " Male); 1—No. 38283 10" Extension; 6—Hex. Sockets ($\frac{1}{2}$ " to $1\frac{1}{2}$ " in 16ths); and 1—sturdy steel carrying case with hinged lid and handle. Shipping Weight: 21 lbs.

Cat. No. 645 Heavy-Duty Impact Wrench Kit

No. 640 HEAVY-DUTY IMPACT WRENCH KIT

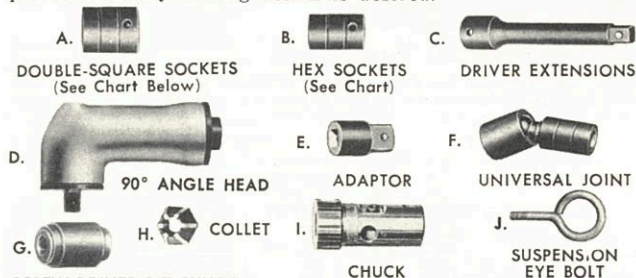


Convenient, time-saving assortment. Protects tools and keeps everything handy. Kit includes: 1—No. 624 "No. 100" H.D. Impact Wrench. 1—No. 38285 Rt. Angle Attachment. 1—No. 33339 Collet-type Chuck with hex. angle wrench and open end wrench. 1—No. 32330 Extra Collet. 1—No. 33410 Universal Joint. 1—No. 38311 Adaptor ($\frac{1}{2}$ " Female— $\frac{5}{8}$ " Male). 1—No. 38283 10" Extension. 6—Hex. Sockets ($\frac{1}{2}$ " to $1\frac{1}{2}$ " in 16ths). 1—Sturdy steel carrying case with hinged lid and handle. Ship. Wt. $26\frac{1}{2}$ lbs.

Cat. No. 640 Heavy - Duty Impact Wrench Kit

No. 100 & No. 300 IMPACT WRENCH ACCESSORIES

Here is the complete line of B&D Impact Wrench Accessories that expand its use for practically any operation where a powerful rotary driving action is desired.



SCREW DRIVER BIT CHUCK

- A. Double-Square Socket with $\frac{1}{4}$ " Square Drive end for "No. 100" and with $\frac{3}{4}$ " Square Drive end for "No. 300".
- B. Hex Socket with $\frac{1}{2}$ " Square Drive end for "No. 100" and with $\frac{3}{4}$ " Square Drive end for "No. 300".
- C. Driver Extensions—5" and 10" with $\frac{1}{2}$ " Square Male and Female Ends for "No. 100" and 7" with $\frac{3}{4}$ " Square Male and Female Ends for "No. 300".
- D. Right Angle Head—measures only $2\frac{3}{4}$ " along spindle end. Enables accurate, efficient, close-quarter work on hard to reach bolts, lag screws, etc.
- E. Adaptor—for fitting, off-size sockets to spindle. $\frac{5}{8}$ " Male - $\frac{1}{2}$ " Female for "No. 100". $\frac{5}{8}$ " to $\frac{3}{4}$ " drive for "No. 300".
- F. Universal Joint—for driving sockets at odd angles. 360° Swivel - maximum 30° angle. $\frac{1}{2}$ " Male and Female Ends for "No. 100". $\frac{3}{4}$ " Male and Female Ends for "No. 300".
- G. Screw Driver Bit Chuck—for "No. 100"—takes $7/16$ " Screw Driver Bits, Shanks and Sockets.
- H. Extra Collet—for "No. 100"—fits into chuck for use with larger size taps and shanks. $5/16$ " - $5/8$ " taps and $5/16$ " - $1/2$ " shanks.
- I. Collet-type Chuck for drilling and tapping with "No. 100". Takes No. 10 to $1/2$ " taps and $3/16$ " shanks.
- J. Suspension Eye Bolt—threads into reversing switch end of Impact Wrench to suspend unit for production-line work.

Accessory	For "No. 100" (Cat. No.)	For "No. 300" (Cat. No.)
Right Angle Head	38285	—
Chuck and Collet (for $1/2$ " Taps, $5/16$ " - $3/8$ " Shanks)	33339*	—
Screw Driver Bit Chuck—takes $7/16$ " Screw Driver Bits, Shanks and Sockets	33345	—
Collet Only (for $1/2$ " Taps, $3/8$ " - $5/8$ " Shanks)	32330	—
Adaptor (Adapts to $5/8$ " Square-Drive)	38311	38316
Universal Joint (360° swivel - max. 30° angle)	33410	38315
5" Driver Extension	33409	38317
7" Driver Extension	—	—
10" Driver Extension	38283	—
Suspension Eye Bolt	2473	2473
Rubber Protector Rings	39350	39352

*Includes collet which takes #10 Screw Driver Bits, $1/2$ " Taps and $3/16$ " - $3/8$ " Shanks. Also Allen Wrench and open end wrench.

HEX SOCKETS			DOUBLE-SQUARE SOCKETS		
Size	For "No. 100" ($1/2$ " Sq. Dr.)	For "No. 300" ($3/4$ " Sq. Dr.)	For "No. 100" ($1/2$ " Sq. Dr.)	For "No. 300" ($3/4$ " Sq. Dr.)	
$3/8$ "	22766	—	22767	—	
$1/2$ "	22768	—	22769	—	
$5/8$ "	22770	—	22771	—	
$3/4$ "	22772	—	22773	—	
$7/8$ "	22774	—	22775	—	
$1\frac{1}{8}$ "	22776	—	22777	—	
$1\frac{1}{4}$ "	22778**	38318	22779	38331	
$1\frac{1}{2}$ "	22780**	38319	22781	38332	
$1\frac{3}{4}$ "	22782	38320	22783	38333	
2 "	22784	38321	—	38334	
$2\frac{1}{4}$ "	22786	38322	22787	38335	
$2\frac{1}{2}$ "	38284	38323	—	38336	
$2\frac{3}{4}$ "	—	38324	—	38337	
3 "	—	38325	—	38338	
$3\frac{1}{4}$ "	—	38326	—	38339	
$3\frac{1}{2}$ "	—	38327	—	38340	
$3\frac{3}{4}$ "	—	38328	—	—	
4 "	—	38329	—	—	
$4\frac{1}{2}$ "	—	38330	—	—	

**These sockets supplied as standard equipment with No. 100 Impact Wrench. They fit all popular makes of auto wheel lugs.



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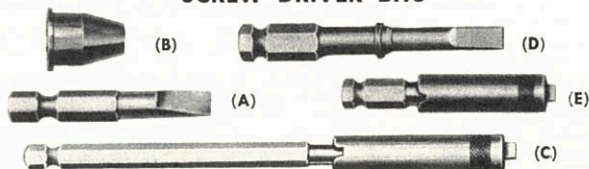
MAGNETIC FINDERS & STANDARD BITS

For Nos. 8, 10 & 12 Scruguns



Screw Size No.	Bit (A)	Magnetic Finder (B)	Screw Size No.	Bit (A)	Magnetic Finder (B)
4L	39040	38379	10B	15475	38394
4R, 5L	39040	38373	10T	15475	38400
4P	13208	38385	12L, 10R	39041	38376
4F, 6L, 4B	13208	38391	10P	39041	38388
4T, 6R	38413	38374	12R	39041	38384
8L, 6P, 6F	13207	38368	12F	39041	38400
6B	13207	38392	12B	39041	38395
10L, 8R	13207	38382	1/4" L	39042	38384
8P, 6T	13207	38387	12P	39042	38389
8F	13207	38369	1/4" R	39042	38378
8B	13207	38393	1/4" P	39042	38390
8T, 10F	15475	38370	1/4" F, 12T, 1/4" B	39042	38396

SCREW DRIVER BITS



Slotted Screw Head Abbreviations used in following table

B = Binding
P = Pan
T = Truss

F = Flat or Oval
R = Round
L = Fillister

WITH 1/4" HEX. SHANKS—FOR SCRUGUNS	Bit Length *	Bit and Stand'd. Finder Assem. (C)	Price	Bit Only (A) (†Nos are D)	Finder Only (B)
#O-L, #O-R, #O-F, #1L	1 1/4"			38428	38429
2R, 2P, 2F, 2B, 3L, 4L	1 1/4"			18051†	20482
3R, 3P, 3F, 3B	1 1/4"			22396	23979
4F, 4B, 4R, 4P, 5L, 5F, 5R, 5P, 6L	1 1/4"			38412	38432
4T, 5B, 6R, 6P, 6F	1 1/4"			13208†	13210
5T, 6B, 6T, 7R, 7F, 7P, 8L, 8R, 8P, 8F, 10L	1 1/4"			17690†	\$2.25
8B, 8T, 9R, 9F, 10F, 10B, 10P, 10R, 12L	2 3/4"			22111	2.75
10T, 10B, 12R, 12P, 12F, 1/4L	2 3/4"			38413	38433
	1 1/4"			13207†	13209
	2 3/4"			13356†	2.25
	5 1/4"			13469†	2.75
	1 1/4"			15475†	15469
	2 3/4"			23494†	23493
	2 3/4"			18593†	2.75
	1 1/4"			16772†	16773
	2 3/4"			21731†	2.25

WITH 1/8" HEX. SHANKS—FOR NO. 14 AND NO. 18 DRIVERS

For use with these Screw Types and Sizes

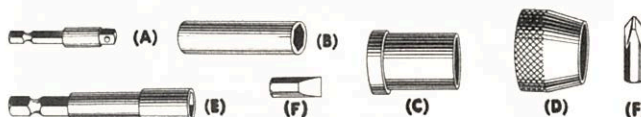
Bit Length *	Bit and Finder Assem. (E)	Bit Only No. (D)
Nos. 4, 5, 6 Wood, Nos. 4 (except Filister), 5, 6 Machine	2 1/2"	5345
Nos. 4, 5, 6 Sheet Metal (except Stove)	2 1/2"	5346†
Nos. 7, 8 Wood, No. 6 Stove	6"	15090
Nos. 7, 8 Sheet Metal, No. 8 Machine	2 1/2"	5330†
No. 10 Filister	6"	15094
Nos. 9, 10, 11 Wood, No. 10 Sheet Metal	2 1/2"	5343†
No. 10 Machine (except Filister)	6"	15098
No. 12 Filister	2 1/2"	5344†
No. 12 Wood, No. 12 Sheet Metal	4"	15101
No. 12 Machine (except Filister)	6"	15102
1/4" Filister	2 1/2"	5329†
No. 14 Wood	6"	15106
No. 14 Sheet Metal	2 3/8"	5364
1/4" Machine (except Filister)	2 3/4"	5366
No. 16 Wood	2 3/4"	5369
5/16" Filister		5120
No. 18 Wood, 5/16" Sheet Metal		
5/16" Machine (except Filister)		
No. 20 Wood, 3/8" Filister		
No. 24 Wood, 3/8" Mach. (except Filister)		

*All lengths shown are the projecting lengths, from chuck to end of bit; they do not indicate overall lengths.

†QUANTITY PRICES—Standard Bits and Bit-Finder Assemblies in this group are packed and stocked in boxes of six. Quantity prices will apply on boxes of 6, with a further price reduction for 1/2 gross lots, all of one size only.

MAGNETIC SOCKETS, BIT TIPS, AND BIT TIP HOLDERS

For Nos. 8, 10 & 12 Scruguns



SHANKS (Fig. A)

(For use with Magnetic Sockets)

Cat. No. 20510 1/4" Hex Shank, 1/4" Drive Square, 2" long.

Cat. No. 20511 1/4" Hex Shank, 1/4" Drive Square, 6" long.

MAGNETIC SOCKETS (Fig. B)

For Hex Head Screws (1/4" Drive Square)

Hex Socket Size	Depth Clearance	Cat. No.
1/4"	.125"	38420
3/8"	.125"	38421
1/2"	.135"	38422
3/4"	.140"	38423
1"	.160"	38424
1 1/8"	.218"	38425

MAGNETIC SOCKETS (Fig. B)

For Hex Head Nuts (1/4" Drive Square)

Hex Socket Size	Depth Clearance	Cat. No.
1/4"	3/8"	38414
3/8"	5/8"	38415
1/2"	7/8"	38416
3/4"	1"	38417
1"	1 1/8"	38418
1 1/8"	1 3/8"	38419

MAGNETIC BIT TIPS† (Fig. F)

Cat. No.	For Use with Screws listed
38403	No. 1 Phillips Head
38404	No. 2 Phillips Head
38405	No. 3 Phillips Head
38406	Reed and Price
38407	No. 6 FBT*
38408	No. 8 FRBPT*
38409	No. 10 FRLBPT*
38410	No. 12 FRLBPT*
38411	1/4" FRLBPT*

*Slotted Screw Head Abbreviations:—

F = Flat or Oval; P = Pan; B = Binding; R = Round; L = Fillister; T = Truss.

Cat. No. 38426 Magnetic Bit Tip Holder (Fig. E) (Use with next two items.)

Cat. No. 38427 Bushing (Fig. C)

Cat. No. 13201 Protector Sleeve** (Fig. D)

** (Std. Equip. with Nos. 10 & 12 Scruguns)

†Quantity prices apply on a package of 5, all of one size.

SCREW DRIVER BITS FOR PHILLIPS HEAD SCREWS



1/4" Hex Shank Bits have a projecting length (from chuck to bit end) of 1 1/2" except Bit No. 18098, which has a projecting length of 2 5/8".

No. 17922	No. 1 Slot for Scruguns
No. 18938	No. 1 Slot for Nos. 14 and 18 Screw Drivers
No. 39018	No. 2 Slot for Scruguns
No. 18098	No. 2 Slot for Scruguns
No. 17924	No. 2 Slot for Nos. 14 and 18 Screw Drivers
No. 21366	No. 3 Slot for Scruguns
No. 17925	No. 3 Slot for Nos. 14 and 18 Screw Drivers
No. 17926	No. 4 Slot for Nos. 14 and 18 Screw Drivers

QUANTITY PRICES—Bits are packed and stocked in boxes of six and 1/2 gross lots. We recommend ordering in standard packages or multiples thereof and offer special quantity prices which apply on designated quantities, all of one size only.

SPECIAL HEX. DRIVE BITS

For use with Hollow Head Cap Screws. Bits are adaptable to all Drivers from No. 8 Scruguns to No. 18 Screw Drivers.

Catalog Number	Diam. Across Flat on Driving End of Bit	Size Screws with which Bit is Used			
		Ex-tension of Bit	Cap Screws	Set Screws	Pipe Plugs
18577 18578 18579	1/8"	1 1/4"	# 8	1/4"	...
	5/16"	1 1/4"	# 10 & # 12	5/16"	...
	3/8"	1 1/4"	1/4"	3/8"	...
17892 19223 26842 18977 23492	3/16"	2"	1/4"	3/8"	1/8"
	1/4"	2"	1/4"	5/16"	1/4"
	5/16"	2"	1/4"	3/4"	3/8"
	3/8"	2"	1/4"	1"	1/2"
	1"	2"	1/4"	1 1/4"	1"

BIT EXTENSIONS

Screw Driver Bit Extensions are available in various lengths, with 1/4" or 7/16" shank to fit chuck sockets to take standard bits and socket wrenches.

Cat. No.	Length	Shank Size	Cat. No.	Length	Shank Size
22539	6"	1/4"	14989	6"	7/16"
22323	10"	1/4"	5288	10"	7/16"

SOCKET WRENCHES

Size Socket	Drive Opening	Cat. No. Hex. Socket	Cat. No. Double Sq.
1/4"	1/4"	20512	
5/16"	1/4"	20513	
3/8"	1/2"	20514	
7/16"	1/2"	20515	
1/2"	3/4"	20516	
9/16"	3/4"	20517	
5/8"	3/4"	20518	
11/16"	7/8"	22762	
3/4"	7/8"	22764	22765
13/16"	7/8"	22766	22767
7/8"	1"	22768	22769
15/16"	1"	22770	22771
1"	1 1/8"	22772	22773
	1 1/8"	22774	22775
	1 1/4"	22776	22777
	1 1/2"	22778	22779
	1 3/4"	22780	22781
	2"	22782	22783
	2 1/4"	22784	
	2 3/4"	22786	22787

SHANKS

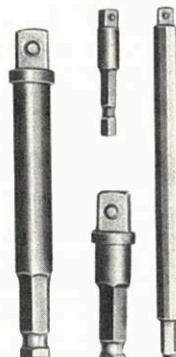
Shank Size	Drive Sq. Size	Overall Length	Catalog Number
1/4"	1/4"	2"	20510
5/16"	1/4"	6"	20511
3/8"	1/2"	2 3/4"	22792
7/16"	1/2"	5"	22793
1/2"	3/4"	2 3/4"	22794
9/16"	3/4"	5"	22795



Double Square



Hexagon



Shanks

ADAPTOR

Use to adapt larger size sockets to smaller size shanks.

Cat. No. 22803 1/2" Male; 1/4" Female

CABLE BALANCE REEL

Use over work benches or along assembly lines for counterbalancing portable tools or fixtures weighing from 0 to 10 pounds.

Max. Extension: 6 ft. Wt.: Net-4 lbs., Ship.—4 1/2 lbs. Diam. of Spring Housing: 7". Adjustment Range: 0 to 10 lbs.

Cat. No. 38741 Cable Balance Reel.



ELECTRIC CORD BALANCE REEL

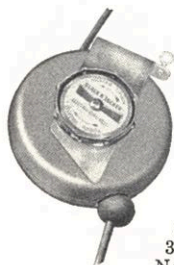
Provides permanent attachment of tool to work location, eliminates twisting and tangling of cord. Adjustable spring—loaded cable take-up counter balances portable tools and fixtures weighing up to 7 lbs.

Max. Extension: 10 ft. Spring Adjustment Range: 0 to 7 lbs.; Cord: 3-conductor, 18 gage. Suspension—can be hung to rotate from 0° to 360° in either direction or on sliding track. Wt.: Net—4 1/2 lbs., Ship.—5 lbs.

Cat. No. 38848 Electric Cord Balance Reel with Twist Lock Plug and Connector.

Cat. No. 38275 Electric Cord Balance Reel

Cat. No. 38772 Accessory Twist Lock Plug and Connector



GLUE POT (2 Quart)

Thermostatic control maintains glue temperature at 150°F. without more than 5° variation. Designed for continuous use. For 115 or 220 volts A.C. or D.C. Wt.: Net—14 lbs., Ship.—14 1/2 lbs.

Cat. No. 89 (Specify A.C. voltage)

Cat. No. 487* (Specify D.C. voltage)

*Available on Special Order—Write for information.



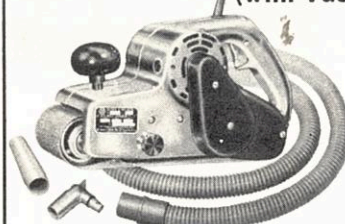
Abrasive Paper for No. 88 Sander

Perfect-cut, ELECTRO-COATED, Aluminum Oxide Abrasive Paper is available in handy envelopes.

Cat. No.	Grit	4 1/2" x 11"
39765	60 or 1/2/0	Envelope of 12 sheets
39766	100 or 2/0	Envelope of 12 sheets
39767	150 or 4/0	Envelope of 12 sheets

NEW 3" H.D. DUST-LESS BALL-BEARING BELT SANDER

(with Vacuum Hose)



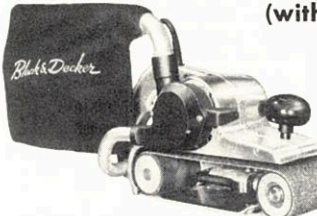
Perfect for all regular sanding operations as well as for beveling glass, sanding resins and other specialized operations. Removes over 90% of all fine dust. Connects to any commercial or domestic vacuum cleaner. Belts stay unclogged longer; abrasives stay sharper. Sands in small radii. Use on continuous production jobs.

Height: 7-1/16" Width: 5 3/8" Length: 13 1/2" Wt.: Net—15 lbs., Ship: 17 1/2 lbs. Includes B & D "Universal" Motor for 115 or 220 volts A.C. or D.C. (125 or 240 volts available on special order). Includes Hose Assembly; Unit Adapter; Universal Fitting; Automatic release Trigger Switch with Locking Pin; 3-conductor cable and plug; 1 Sanding Belt—No. 45393.

Cat. No. 671 3" H.D. Dust-Less Ball-Bearing Belt Sander.

NEW 3" H.D. BALL-BEARING BELT SANDER

(with dust collecting system)



Capable of continuous production service; equipped with lubricant-sealed ball-bearings. Has Timing Belt Drive that requires no lubrication. Provides clean, efficient sanding by using a close-coupled vacuum unit driven by the Belt Sander motor. Collected materials

easily removed from zippered bag. Vacuum unit is removable for flush sanding.

Height: 13 1/2" Width: 7 1/4" Length: 21 1/2" Wt.: Net—15 lbs. Ship.—17 1/2 lbs. Includes: B & D "Universal" Motor for 115 or 220 volts A.C. or D.C. (125 or 240 volts available on special order); vacuum unit with zippered bag; automatic-release trigger switch with locking pin; 2-conductor cable and plug; 1 Sanding Belt—No. 45393.

Cat. No. 670 3" Heavy-Duty Ball-Bearing Belt Sander.

NEW 3" H.D. BALL-BEARING BELT SANDER



Powered and built to be the finest Belt Sander in today's market. Lubricant-sealed ball-bearings and special B & D—built motor. Gearless transmission requires no lubrication. Extended roller permits sanding concave surfaces. Flush side allows sanding up to vertical surfaces. Can quickly be equipped

with vacuum hose for dustless sanding.

Height: 7-1/16" Width: 5 3/8" Length: 13 1/2" Wt.: Net—14 lbs. Ship.—16 1/2 lbs. Includes: B & D "Universal" Motor for 115 or 220 volts A.C. or D.C. (125 or 240 volts available on special order); automatic-release trigger switch with locking pin; 3-conductor cable and plug; 1 Sanding Belt—No. 45393.

Cat. No. 654 3" Heavy-Duty Ball-Bearing Belt Sander.

BELT SANDER ACCESSORIES

1. Hose Assembly—coupled with Unit Adapter (below) converts No. 654 Sander to Dust-Less model. Cat. No. 39968 (Ship. Wt. 2 1/4 lbs.)
2. Extension Hose Coupling—permits connecting 2 or more 5 ft. sections of hose together. Cat. No. 45366 (Ship. Wt. 1/4 lb.)
3. Universal Fitting—permits attachment of Hose Assembly, above, to any standard industrial or domestic vacuum cleaner. Cat. No. 45184 (Ship. Wt. 1/4 lb.)
4. Unit Adapter—for attaching Hose Assembly (above) to Belt Sander handle. Cat. No. 45263 (Ship. Wt. 1/4 lb.)

Items 1, 3 & 4, above, are std. equipment with No. 671 Sander.

SANDING BELTS

3" x 24"—Packed 10 belts per carton—Ship. Wt. 1 lb. per carton.

Cat. No. 45235 36 (2/0) Grit (closed coat)

Cat. No. 45236 36 (2/0) Grit (open coat)

Cat. No. 45237 60 (1/2) Grit (open coat)

Cat. No. 45238 80 (1/0) Grit (closed coat)

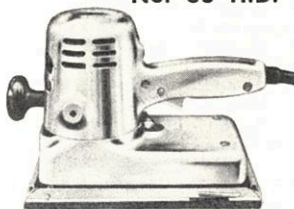
Cat. No. 45239 80 (1/0) Grit (open coat)

Cat. No. 45240 100 (2/0) Grit (closed coat)

Cat. No. 45241 100 (2/0) Grit (open coat)

Cat. No. 45393 60 (1/2) Grit (closed coat)

No. 88 H.D. FINISHING SANDER



Fastest—cutting, most powerful orbital sander on the market! Ball-bearing equipped for production work. Leaves no Swirl Marks—sand with, against or across wood grain. Platen orbits per min.: 5000; Orbit dia. 3/16"; paper size: 4 1/2" x 11"; Switch: "Instant-Release" Trigger (can be locked "ON"); 3-wire cable and plug; "Universal" motor

for 115 volts A.C. or D.C. Length: 10 1/4"; Width: 4 1/2"; Height: 7"; Wt.: Net—8 1/2 lbs., Ship.—10 1/2 lbs.

Cat. No. 88 Heavy-Duty Finishing Sander.



Black & Decker® THE COMPLETE LINE •



POLISHSHOP ASSORTMENTS

All the equipment needed to establish a top-quality polishing business. Features — handy bin mounted on back of cart for polishing rags and extra bonnets; heavy spring suspension at front axle converts cart into a strong, stationary platform for operator to stand upon; big wheels take the rough treatment of gravel or coarse cement floors.

Cat. No. 661 Polishshop Assortment with H.D. Automatic Polisher. Includes Heavy-Duty Automatic Polisher, Polishshop Cart, 2 9" Vitri-Buff Bonnets and 1 case (4 gals.) Super Vitri-Glaze. (Shipping Wt. 98 lbs.)

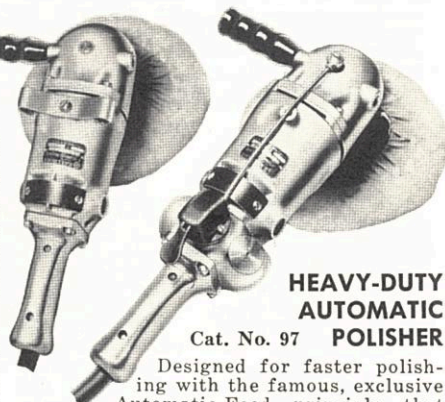
Cat. No. 662 Polishshop Assortment with H.D. Electric Polisher. Includes Heavy-Duty Electric Polisher, Polishshop Cart, 2 9" Vitri-Buff Bonnets, and 1 case (4 gals.) Super Vitri-Glaze. (Shipping Wt. 98 lbs.)

Cat. No. 37732 Polishshop Cart (Shipping Wt. 31 lbs.)

HEAVY-DUTY POLISHER

Cat. No. 99

Has every feature of the Automatic Polisher except the automatic feed mechanism. Ideal for rubbing down operations on new paint jobs and for polishing all types of metal surfaces. Standard equipment: 3-conductor cable and plug; rocker-typeswitch; 7" rubber cushion pad; lambs wool bonnet; reversible side handle; strap metal stand; spanner wrench; lock pin; "universal" motor.



HEAVY-DUTY AUTOMATIC POLISHER

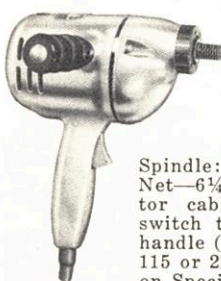
Cat. No. 97

Designed for faster polishing with the famous, exclusive Automatic-Feed principle that applies Vitri-Glaze directly to the car surface without interruption to the polishing job. Includes: 3-conductor cable and plug; rocker-type switch; 7" rubber cushion pad; lambs wool bonnet; spanner wrench; lock pin; reversible side handle; "universal" motor.

	Cat. No. 99	Cat. No. 97
Net Wt.	11½ lbs.	12¾ lbs.
Ship. Wt.	15¾ lbs.	15¾ lbs.
Pad Diam.	7"	7"
Spindle	5/8"-11 thread	5/8"-11 thread
Length (No Pad)	15½"	17½"
Voltage	115 or 220*	115 or 220*

* 125 or 240 volts available on special order. Specify voltage.

NEW 7" BALL-BEARING SANDER



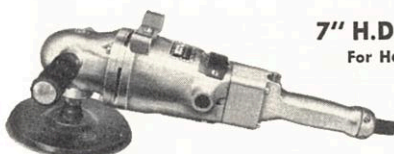
A light well-balanced Sander for Sanding, Brushing, Polishing and Rubbing jobs. Switch and Ball-Bearings are sealed against dust and dirt. Equipped with a Spindle Locking Pin for changing Sanding Discs and other attachments. Has heat-treated gears and grease-sealed ball-bearings throughout.

Spindle: 5/8"-11 thread. Length: 7-5/16". Weight: Net—6¼ lbs.; Ship.—7¼ lbs. Includes: 3-conductor cable and plug; automatic-release trigger switch that can be locked "ON"; auxiliary side handle (fits either side of tool). Standard Voltage: 115 or 220 volts A.C. or D.C. (125 or 240 available on Special Order).

Cat. No. 676-35 3500 R.P.M. Cat. No. 676-14 1400 R.P.M.
Cat. No. 676-20 2000 R.P.M. Cat. No. 676-10 *1000 R.P.M.

*1000 R.P.M.—Available on Special Order.

See B & D Catalog Form 1 for recommended Sander Accessories and applications for the various speeds.



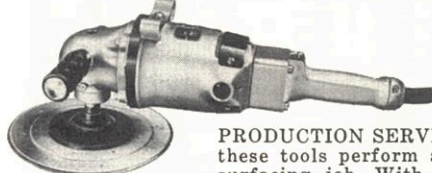
7" H.D. Ball-Bearing Sander

For Heavy-Duty Automotive and Industrial Service

Improved heavy-duty gearing. Ball-bearing throughout. Ideal for automotive body shop

work and semi-production jobs. Light and compact. Includes: Spindle lock, 3 conductor cable and plug, 3 Sanding Discs, 6½" Rubber Backing Pad, Clamp Washer, Reversible Side Handle, Strap Metal Stand and Spanner Wrench. Backing Pad Diam.—6½"; Length (no pad)—17¾"; Spindle 5/8"—11 thread; Voltage 115 or 220 (125 or 240 volts available on special order); Weight: Net—10½ lbs., Shipping—13 lbs. Cat. No. 92 4250 R.P.M. Specify voltage

HEAVY-DUTY SANDER-GRINDERS



B&D Sander-Grinders are TOP PERFORMANCE Abrasive Tools which are capable of CONTINUOUS

PRODUCTION SERVICE. Highly versatile, these tools perform almost every kind of surfacing job. With Abrasive Discs they

handle all sanding, from fast material removal to satin-smooth finishing. With Depressed-Center Wheels, or Saucer Grinding Wheels, they smooth welds and casting ridges; cut off old studs, bolts and rivets. With Wire Cup Brushes, they remove paint, rust, scale; clean castings, tanks. With Planer Heads, they shape and semi-finish lumber; remove stencil and brand marks. Select the speed and model from the listings below.

SPECIFICATIONS	7" H.D. Sander-Grinder	9" H.D. Sander-Grinder
Sanding Disc	7" Diameter	9½" Diameter
Spindle Diameter	5/8"—11 thread, R.H.	5/8"—11 thread, R.H.
Weight	Net 13¾ lbs; Shipping 17¼ lbs.	Net 14 lbs; Shipping 18¼ lbs.
Overall length (not including pad)	18¾"	18¾"
Backing Pad(s)	4¾" Rubber 6¾" Kooflex	4¾" Rubber 6¾" Kooflex 8¾" Kooflex

STANDARD EQUIPMENT includes — Spindle lock, clamp washer, 3-conductor cable and plug, strap metal stand, spanner wrench, suspension eye bolt, and reversible side handle. Standard Voltage—115 volts or 220 volts A.C. or D.C. (125 or 240 volts available on special order.)

4000 R.P.M. SPINDLE SPEED UNIT (3100 R.P.M. at rated load)

For heavy-duty operation utilizing full power of the tool. Maintains high productive speed under load.

Cat. No. 433-4 9" H.D. Sander-Grinder—4000 R.P.M.

Use with following accessories:

- Cat. No. 18056 4" Wire Cup Brush
- Cat. No. 24353 5" Wire Cup Brush
- Cat. No. 12398 6" Wire Cup Brush
- Cat. No. 24050 4" Saucer Grinding Wheel
- Cat. No. 23444 5" Saucer Grinding Wheel
- Cat. No. 18039 6" Saucer Grinding Wheel
- Cat. No. 37219 5" Saucer Grinding Wheel (Concrete)
- Cat. No. 37220 6" Saucer Grinding Wheel (Concrete)
- Cat. No. 33262 6½" Std. Rubber Pad
- Cat. No. 33488 6½" H.D. Rubber Pad
- Cat. No. 33487 8¾" Rubber Pad
- Cat. No. 14734 5" Gouging Planer Head
- Cat. No. 14735 5" Surfacing Planer Head

5000 R.P.M. SPINDLE SPEED UNITS (3400 R.P.M. at rated load)

Medium speed for fast grinding and sanding.

Cat. No. 590 7" H.D. Sander-Grinder—5000 R.P.M.

Cat. No. 433-5 9" H.D. Sander-Grinder—5000 R.P.M.

Use with following accessories:

- Cat. No. 33488 6½" Rubber Pad
- Cat. No. 37113 9"x½" Depressed Center Wheel
- Cat. No. 37114 9"x¼" Depressed Center Wheel
- Cat. No. 31000 6¾" Kooflex pad.
- Cat. No. 31001 8¾" Kooflex Pad with No. 33489—4¾" Rubber Pad

6000 R.P.M. SPINDLE SPEED UNITS (4200 R.P.M. at rated load)

For use with accessories that operate best when high grinding speed, and light pressure, is maintained.

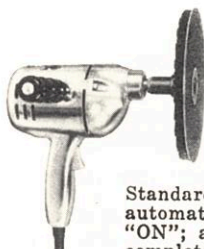
Cat. No. 591 7" H.D. Sander-Grinder—6000 R.P.M.

Use with following accessories:

- Cat. No. 31000 6¾" Kooflex Pad with No. 33489—4¾" Rubber Pad
- Cat. No. 37111 7"x½" Depressed Center Wheel
- Cat. No. 37112 7"x¼" Depressed Center Wheel



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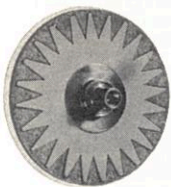


FEATHER-EDGER

Ideal tool for all feather-edging work or for complete "scuffing" of autos for overall repainting in minimum time. Abrasive Disc Diam. — 7". Net wt.—6½" lbs. Shipping wt.—10 lbs. Length (not including feather-edging attachment) — 7-5/16". Spindle — 5/8" x 11 thread. No load Speed: 3500 r.p.m.

Standard Equipment — 3-conductor cable and plug, automatic release trigger switch that can be locked "ON"; auxiliary side handle (fits either side of tool); complete Feather-Edging Attachment; and B & D "Universal" Motor for 115 Volts, or 220 Volts A.C. or D.C. Other voltages available.

Cat. No. 639 Feather-Edger (Specify voltage)
Cat. No. 36787 Spindle Adaptor (Standard replacement part for Feather-Edger)

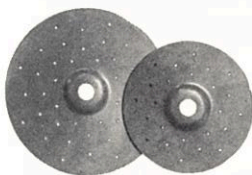


FEATHER-EDGING ATTACHMENT

New way to feather-edge. Uses paper backed discs held by twist-lock plunger. Can be used on all 7" Sanders.

No. 33493 Feather-Edging Attachment
No. 34342 "Twist-Lock" Plunger
No. 33998 Felt-Pad with Fibre Pad

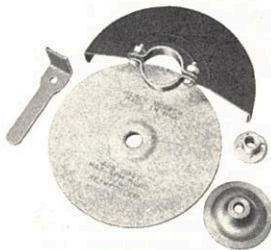
"KOOLFLEX" BACKING PADS



Light-weight, fabric-base, plastic-bonded discs provide greater flexibility, cooler operation and longer life on sanding applications. Used with Moulded Rubber Pad. For maximum flexibility, use one "Kooflex" pad with corresponding size abrasive disc. For "feathering" finish, use No. 31000 "Kooflex" pad with 9/8" abrasive. For more rigid backing use both sizes of "Kooflex" pads with 9/8" abrasive.

No. 31000 6½" "Kooflex" Backing Pad
No. 31001 8½" "Kooflex" Backing Pad

DEPRESSED-CENTER WHEELS



Performs to best advantage on rough surfaces, giving a better finish than that possible with a grinding wheel; or where the application is too severe for highly flexible, coated abrasive discs. These new wheels do, however, have sufficient flexibility to lend themselves to blending and smoothing curved surfaces and corners.

No. 37108 7" Guard Assembly
No. 37109 9" Guard Assembly

No. 37110 Disc Wheel Adaptor (includes Wheel Backing Flange and Clamp Washer for use with Depressed-Center Wheels, and No. 22231 Spanner Wrench)

No. 37111 7"x½"x¾" Dep. Center Wheel—Grit 24
No. 37112 7"x¼"x¾" Dep. Center Wheel—Grit 24
No. 37113 9"x½"x¾" Dep. Center Wheel—Grit 24
No. 37114 9"x¼"x¾" Dep. Center Wheel—Grit 24

FLEXIBLE BACKING PADS FOR POLISHERS

Pads have 5/8"-11 inside—threaded hub which screws directly to spindle of Polishers.

Cat. No. 45433 7" Super Flexible Rubber Backing Pad with No. 10279 Clamp.

Cat. No. 33262 6½" Extra Flexible Rubber Backing Pad with No. 33257 Clamp Washer.

FLEXIBLE BACKING PADS

For Sanders and Sander-Grinders

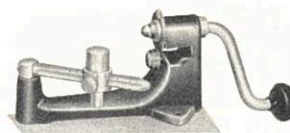
Pads have 5/8"-11 inside—threaded hub which screws directly to Spindle. Accessories are attached by a clamp washer.

No. 33489 4½" Rubber Backing Pad with No. 33257 Clamp Washer.

For use with Standard Sander only:

No. 33488 6½" Rubber Backing Pad with No. 33257 Clamp Washer.

No. 33262 6½" Extra Flexible Rubber Backing Pad with No. 33257 Clamp Washer.



ABRASIVE DISC TRIMMER

Facilitates the complete use of abrasive discs, cutting them down to smaller diameters as outer surface is used up. Trimmer has adjustable center hole pilot on a calibrated swinging arm.

No. 21808 Abrasive Disc Trimmer
No. 21753 Replacement Cutter

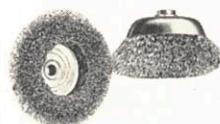
SAUCER GRINDING WHEELS AND WHEEL GUARDS

For some metal grinding applications, the Sander equipped with a Saucer Grinding Wheel does smoother and faster work than a Portable Grinder. (Use No. 37219 and No. 37220 wheels for smoothing concrete). Saucer Wheels have 5/8"-11 thread bushing to fit spindle direct.

No. 24050 4" Saucer Grinding Wheel (for 7" Std. Sander)
No. 23444 5" Saucer Grinding Wheel (for 7" & 9" H.D.)
No. 18039 6" Saucer Grinding Wheel (for 7" & 9" H.D.)
No. 37219 5" Saucer Grinding Wheel (for concrete) For 7" and 9" H.D. Sander-Grinders
No. 37220 6" Saucer Grinding Wheel (for concrete) For 7" and 9" H.D. Sander-Grinders
No. 38507 4" Saucer Wheel Guard (for 7" Std. Sander)
No. 38508 5" Saucer Wheel Guard (for 7" & 9" H.D.)
No. 38509 6" Saucer Wheel Guard (for 7" & 9" H.D.)

CUP GRINDING WHEEL

Use No. 10711 Spindle Extension to attach to Sander.
No. 10663 4" Cup Grinding Wheel (Grade 36-H)
No. 10711 Spindle Extension



WIRE CUP BRUSHES

Made by us for use on Sanders to remove rust, scale and paint; to clean tanks and boat hulls; for cleaning castings and structural steel. 5/8"-11 thread hub threads on Sander spindle.

No. 18056 4" Wire Cup Brush for 7" Standard Sander
No. 24353 5" Wire Cup Brush for 7" Heavy-Duty Sander.
No. 12398 6" Wire Cup Brush for 9" Heavy-Duty Sander.

VITRI-BUFF BONNETS AND POLISHING PADS



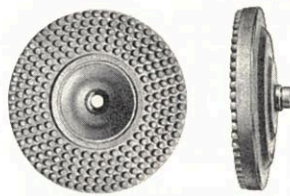
Vitri-Buffs are exceptionally resilient — yet have a stronger pile with more body. Outlast ordinary type buffs many times over.

No. 37796 Vitri-Bonnet*†
No. 37797 Vitri-Buff Bonnet*‡
No. 13087 Polishing Bonnet*†
No. 22176 Polishing Bonnet*‡
No. 13086 Polishing Pad
No. 22174 7" Sponge Rubber Pad

*Hood and Drawstring Included.
†Use with Rubber Backing Pad.

Pads and Bonnets are packed singly or in cartons of six.

CUSHION PAD



Combines molded hard rubber backing and sponge rubber cushioning into a complete flexible pad for use with Polishing Bonnets. This pad is the result of numerous "on-the-job" tests and will aid materially in giving the best possible results with Vitri-Glaze, polish or wax.

No. 36239 CUSHION PAD with 33257 Clamp Washer

SUPER VITRI-GLAZE



Contains NEW "Color-Guard" to filter out the sun's injurious rays. "Tailor-made" for Power Polishing and to produce in one operation a clean, lustrous sealed car surface that stays hard and bright for months. Quickly removes road scum and chalk-like "dead" pigment and then polishes and seals the surface. Leaves no sticky residue to collect dirt — nor does it remove or harm good "live" paint. Gives better results than polishes costing up to three times as much and restores that "Show-Room" look.

Cat. No. 39510 Super Vitri-Glaze, 1-gal. jug
Substantial saving in case lots of four 1-gal. jugs.



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RUBBING PADS

For rubbing down orange peel in lacquer finishes, etc.
 No. 36501 7 3/4" Pile Fabric Rubbing Pad
 No. 10661 Felt Rubbing Pad for 7" Polisher or 7" Sander
 No. 36500 9 3/4" Improved Pile Fabric Rubbing Pad

VITRI-WAX

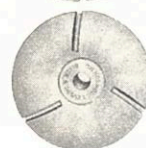
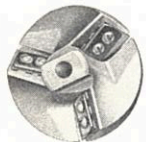
New Vitri-Wax protects paint from damaging effects of sun's ultra-violet rays. Keeps paint from fading and reduces paint oxidation. Gives hard, protective waxed finish. Ideal for use with the B&D Polisher.

Cat. No. 38963 1 1/2 lb. can Vitri-Wax
 Case of ten 1 1/2 lb. cans at reduced price.

POWER RUBBING COMPOUND

Applied with Polisher equipped with pile fabric pad, will quickly remove "orange peel" and spray pits from newly lacquered surfaces, giving a smoother, more uniform surface.
 No. 31459 1-gal. can Power Rubbing Compound
 Case of six 1-gallon cans at reduced price.

ROTARY PLANER HEADS



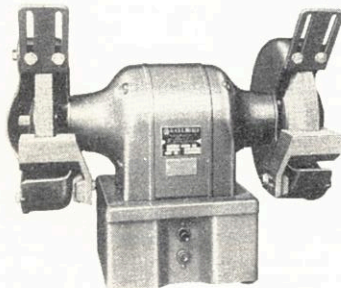
Perform many wood surfacing and shaping operations formerly done with jack-plane and adz. Two types of planer head are supplied: one with rounded surface for deep gouging, the other with flat face for surfacing and semi-finishing. For smoothing and fitting joints in concrete forms; surfacing boat hulls and decks, piers, floors, etc.

No. 14734 5" Gouging Planer Head, complete with blades

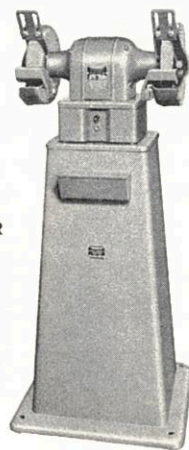
No. 14735 5" Surfacing Planer Head, complete with blades

No. 14733 Replacement Blades (same for either head), Set of 3

BENCH GRINDERS



8-INCH
H.D.
BENCH
GRINDER



Equipped with ball bearings, protected from dust and set to minimize spindle vibration; tool rests adjustable for wheel wear; strong wheel guards, wide sturdy base with rubber feet; adjustable spark shields. Motors are not universal; supplied for voltages and currents as listed.

Cat. No. 30835 Pedestal for Bench Grinders

6" STANDARD BALL BEARING BENCH GRINDER

Ball-bearing equipped. Standard Equipment—1 Med. Grinding Wheel, 1 Wire Wheel Brush. Motor Rating, 1/4 H.P. (except 25 cycle), Toggle Switch in base.

Cat. No. 595 Current: 1 Phase; 60 cycles (3600 R.P.M.) or 50 cycles (3000 R.P.M.); 115 or 220 volts A.C.* (125 or 240 volts available on special order.)

Cat. No. 596 Current: 1 Phase; 25 cycles (1500 R.P.M.); 115 volts A.C.* (220 volts available on special order.)

*Not available for Direct Current. Specify voltage, phase and cycle.

6" HEAVY-DUTY BALL BEARING BENCH GRINDER

Ball-bearing equipped. Standard Equipment—2 grinding wheels; 1 medium, 1 fine. Motor Rating, 1/2 H.P. (except 25 cycle) Toggle Switch in base.

Cat. No. 587 Current: 1 Phase; 60 cycles (3600 R.P.M.) or 50 cycles (3000 R.P.M.); 115 or 220 volts A.C.* (125 or 240 volts available on special order.)

Cat. No. 588 Current: 1 Phase; 25 cycles (1500 R.P.M.) 115 volts A.C.* (220 volts available on special order.)

*Not available for Direct Current. Specify voltage, phase and cycle.

SEE NEXT COLUMN FOR OTHER MODELS

BENCH GRINDERS

(See Column At Left For Other Models)

8" HEAVY-DUTY BALL BEARING BENCH GRINDER

Wheel size, 8" x 3/4" x 3/8". Net weight, 65 lbs. Shipping, 70 lbs. Motor Rating, 3/4 H.P.

Standard Equipment—2 Grinding Wheels; 1 med., 1 fine. Motor not universal. Not available for direct current. Supplied in standard voltages and currents as follows:

Voltage	(115 or 220)*	(220/440)**
Phase	1	3
Cycle	50-60	50-60
Cat. No. (Specify voltage, phase and cycle.)	74	76

Price

*Specify which one—not reconnectable.

**Reconnectable for either voltage.

10" HEAVY-DUTY BALL BEARING BENCH GRINDER

Wheel Size, 10" x 1" x 3/8". Standard Equipment—2 grinding wheels, 1 med.; 1 coarse. Net Weight 105, Shipping 118 lbs. Motor Rating, 1 H.P., (1/2 H.P. for 25 cycle). Motor, not Universal. Not available for direct current.

Supplied in standard voltages and current as follows:

Phase	Cycle	R.P.M.	Cat. No.	Available Voltages
1	60	1800	83	115 or 220 Specify which one— not reconnectable.
	50	1500	83	
	25	1500	78	
3	60	1800	85	220/440 Reconnectable for either voltage.
	50	1500	85	

For voltages available on special order—see Master Catalog. (Specify voltage, phase and cycle.)

ILLUMINATED EYE SHIELDS

Cat. No. 30050 An assembly of a pair of 115 volt Shields, to be connected to and operated by the 115 volt bench Grinder switch. (For 8" & 10" Bench Grinders Only)

Cat. No. 30142 An assembly of a pair of 115 volt Shields, with cord, plug and switch, operated independently of the Bench Grinder switch

Cat. No. 30144 An assembly of a single 115 volt Shield, with cord, plug and switch, operated independently.

Cat. No. 23641 5" x 6" Replacement Shatter-proof Glass

SHATTER-PROOF EYE SHIELDS

Cat. No. 34575 One 3 1/4" x 5 1/4" Eye Shield complete

Cat. No. 34576 One 3 1/4" x 5 1/4" Replacement Shatter-proof Glass

ELECTRIC DIE GRINDERS

For die shops, stamping plants, tool rooms; compact, powerful, rugged; equipped with 1/4" single purpose chuck adaptable to variety of shaped wheels and burrs.



No. 8 DIE GRINDER

(1) A new, powerful Black & Decker motor; the smallest in any B&D tool. This permits a net weight of only 2 1/2 lbs. and a main housing diameter of only 2 1/8", for convenient and accurate handling.

(2) A high no-load speed of 30,000 R.P.M.

(3) Latest-design collet chuck takes mounted points and stones with 1/4" shanks.

(4) Extended spindle housing permits gripping the tool close to the grinding stone for delicate and careful grinding.

Maximum Wheel Diameter 7/8"

No-load Spindle Speed 30,000 R.P.M.

Weight Net 2 1/2 lbs.; Shipping 3 3/4 lbs.

Overall Length 11 1/2"

Cat. No. 577 (Specify Voltage)*

Cat. No. 21955 Split Sleeve for reducing collet opening to 1/8"



No. 12 DIE GRINDER

Bonnet Cap Switch-in-Cap Switch Handle

Maximum Wheel Size* 2" x 1 1/2" x 1/2" 2" x 1 1/2" x 1/2"

No-load Speed 17,500 R.P.M. 17,500 R.P.M.

Net Weight 4 lbs. 4 1/4 lbs.

Shipping Weight 5 1/4 lbs. 6 1/2 lbs.

Overall Length 11-15/16" 15-13/16"

Catalog No. (Specify Voltage)* 291 290

Price

Standard Equipment—3-wire cable and plug; 1/4" Chuck; two Wrenches; "universal" motor.

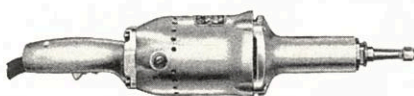
*No wheels are supplied with any Die Grinders.

(SEE PAGE 15 FOR No. 20 DIE GRINDER)

Black & Decker® THE COMPLETE LINE •

ELECTRIC DIE GRINDER

(See Page 14 For Other Models)



No. 20
DIE GRINDER

Maximum Wheel Size*, 2½" x ½" x ⅝"; No-load Speed, 14,500 R.P.M.

Net Weight, 7 lbs., shipping weight, 9 lbs.; length, 17¾".

Cat. No. 499 With extended end handle (specify voltage)* \$85.00

*No wheels are supplied as standard equipment with Die Grinders. Wheel Guards, Wheel Arbors and maximum size Grinding Wheels can be furnished at extra cost.

See below for Replacement and Extra Equipment.

*Standard Voltage: 115 or 220. Special order 125 or 240 volts.

PORTABLE ELECTRIC GRINDERS

Applications—Grinding, wire brushing, buffing and polishing all types of metal surfaces, where the grinder must be taken to the work. Removing rust, scale, paint, etc. Grinding or cutting off rivets, bolts, pins, studs, etc. Smoothing welded surfaces.



2½" PORTABLE
GRINDER

Wheel Size, 2½" x ½" x ⅝"; No-load speed, 14,500 R.P.M.

Net weight, 7½ lbs., shipping weight, 9¼ lbs.; overall length, 16¾".

Cat. No. 395 Specify Voltage

Standard Voltage: 115 or 220. On special order 125 or 240 volts.

REPLACEMENT AND EXTRA EQUIPMENT FOR NO. 20 DIE GRINDER, AND 2½" PORTABLE GRINDER

No. 36804 2½" High Speed Bonded Grinding Wheel

No. 31457 2½" Wheel Guard Assembly, complete

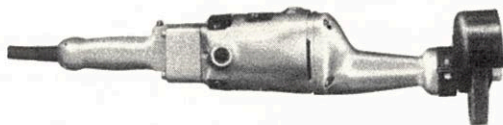
No. 31456 Clamp Nut

No. 24187 ¼" S. A. Chuck with ⅝" Reducing Sleeve

No. 21955 ⅝" Reducing Sleeve only for No. 24187 Chuck

5-INCH PORTABLE GRINDER

Ideal for general service in maintenance or on continuous production work. Lubricant-sealed ball-bearings used throughout.



Wheel Size, 5" x ¾" x ½"; No-load Speed, 4500 R.P.M.

Net weight, 13 lbs., shipping weight, 15¼ lbs.; overall length, 22½".

Voltage—115 or 220. 125 or 240 on Special Order.

Cat. No. 60 (Specify Voltage)

6-INCH PORTABLE GRINDER



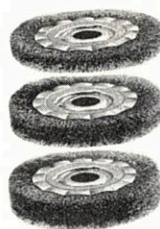
New, improved design gives 85% more power with 1½ lbs. less weight. Top, continuous production capacity on GRINDING, BUFFING and WIRE BRUSHING operations.

Wheel Size, 6" x 1" x ⅝"; No-load Speed, 3750 R.P.M.

Net weight, 18½ lbs., shipping weight, 22 lbs.; overall length, 24½".

Voltage—115 or 220. 125 or 240 on Special Order.

Cat. No. 61 (Specify Voltage)



WHIRLWIND WIRE WHEEL BRUSHES

WHIRLWIND wire wheel brushes give you more brush for your money. More wire per section—closely packed—securely anchored; hence a more dense and even brushing surface and less danger of loose wire—longer life on heavy-duty work. More quality—highest grades of wire—carefully selected and tested.

.014" WIRE DIAMETER SIZE

Brush Diam.	No. of Sects.	Brush Width		Arbor Adaptor*	Catalog Number
		Hub	Face		
4"	1	⅞"	⅝"	½"	39009
	2	1⅛"	⅞"		23201
	3	1"	1⅛"		21397
6"	1	⅞"	⅝"	½"	39011
	2	1⅛"	⅞"		39012
	3	1"	1⅛"		21401
7"	1	⅞"	⅝"	⅝"	23204
	2	1⅛"	⅞"		23205
	3	1"	1⅛"		21411
8"	1	⅞"	⅝"	⅝"	23206
	2	1⅛"	⅞"		23207
	3	1"	1⅛"		21405
10"	4	1⅝"	1⅞"	¾"	21407
12"	4	1⅝"	2⅜"	1¼"	21409

.0118" WIRE DIAMETER SIZE

4"	1	⅞"	⅝"	½"	27000
	2	1⅛"	⅞"		27001
	3	1"	1⅛"		27002
6"	1	⅞"	⅝"	½"	27003
	2	1⅛"	⅞"		27004
	3	1"	1⅛"		27005
8"	1	⅞"	⅝"	⅝"	27009
	2	1⅛"	⅞"		27010
	3	1"	1⅛"		27011
10"	4	1⅝"	1⅞"	¾"	27012
12"	4	1⅝"	2⅜"	1¼"	27013

.005" WIRE DIAMETER SIZE

4"	1	⅞"	⅝"	½"	39008
	2	1⅛"	⅞"		23209
	3	1"	1⅛"		23210
6"	1	⅞"	⅝"	½"	39010
	2	1⅛"	⅞"		23212
	3	1"	1⅛"		23213
8"	1	⅞"	⅝"	⅝"	23217
	2	1⅛"	⅞"		23218
	3	1"	1⅛"		23219

*The size Adaptor normally furnished is indicated above, but ½", ⅝", ¾", ⅞", 1", 1⅛", 1¼" and 1½" sizes can be substituted, if specified when ordering.

GRINDING WHEELS



Unit	Cat. No.	Diam.	Face	Hole	Grade
6" Utility, 8" Junior, 6" Std. Bench Grinder (D)	39023 39022	6"	⅝"	½"	A36 R V A60 N V
6" H.-D. Bench Grinder (H, K, L, & M)	15315 15314	6"	¾"	½"	A36 R V A60 N V
8" Bench Grinder (Types F & G)	18061 18062	8"	⅞"	⅝"	A36 N6V A60 L6V
10" Bench Grinder (Types B, C D)	10275 10274	10"	1"	¾"	A46 N6V A24 Q6V
Portable Grinders and Die Grinders	20330 20329 24317 36804	2" 2½" 3" 2½"	½" ⅞" ⅞" ⅞"	½" ½" ⅝" ⅝"	A36 S B A30 S B A36 S B A36 S B
4" Portable Grinder	6772	4"	¾"	½"	A36 R V
5" Portable Grinder	3042	5"	¾"	½"	A36 R V
6" Portable Grinder	3148	6"	1"	⅝"	A36 R V
7" Spl. Sander	10683	4"	¾"***	½"	A36 Q V
7" H.D.-Sander-Grinder	24050	4"	1"††	⅝"	A16 Q B
7" H.D.-Sander-Grinder	23444	5"	1¼"††	⅝"	A15 Q B
9" H.D.-Sander-Grinder	18039	6"	1¼"††	⅝"	A16 Q B
7" H.D.-Sander-Grinder	37219	5"	1¼"††	⅝"	C16 P B
9" H.D.-Sander-Grinder	37220	6"	1¼"††	⅝"	C16 P B
¼" Drill	39024	3"	½"	½"	A60 M V

*Offset

†Recessed

**Cup

††Saucer



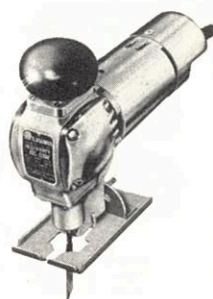
Black & Decker® THE COMPLETE LINE •

HEAVY-DUTY JIG SAW

This is a Heavy-Duty Jig Saw with tremendous capacity, power and versatility! Special B&D motor and gear train will drive the blade through a 2x4! Shoe is adjustable for bevel cuts to 1 1/2" depth on either side and blades are available to cut wood, metal sheets, rods, tubes, plastics, fibre glass, masonite, leather, etc. Engineered for maximum efficiency at a fast working pace for smooth, continuous production operations. Sturdy, compact field case fits snugly and comfortably in the hand. Reciprocating action is balanced to eliminate vibration.

Weight: Net—6 lbs.; Shipping—7 lbs. Overall Size: Length—9 1/4"; Height (without blade)—7 1/2". B&D Universal Motor for 115 volts, A.C. or D.C. Length of stroke: 1". Speed: 3300 s.p.m. Rated for most efficient operation: Up to 2" soft wood and 1" hard wood. Standard equipment included: 3 Hi-Speed wood-cutting blades (1—39754, 1—39755, and 1—39756), 1 Fine set tooth metal-cutting blade (39748), Wrench for quick blade change, toggle switch, and 3-conductor cable with plug.

Cat. No. 11 Heavy-Duty Jig Saw

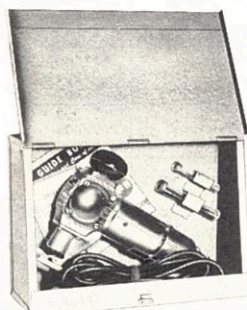


HEAVY-DUTY JIG SAW KIT

A complete, professional outfit that's ready to take on repair or maintenance jobs, electrical work, or plumbing installations.

Handy • Compact • Convenient Includes: No. 11 H.D. Jig Saw; 6 Hi Speed Steel Blades (2 fine, 2 wide coarse, 2 narrow coarse); 2 Deluxe Coarse Tooth Blades; 2 Fine Set Tooth Metal-Cutting Blades; 1 Coarse Set Tooth Metal-Cutting Blade; 1 Knife Blade; 1 Steel Carrying Case. Shipping Weight: 12 lbs.

Cat. No. 12 Heavy-Duty Jig Saw Kit



BLADES FOR NO. 11 JIG SAW



Cat. No.	Blade	For Pocket Cuts	In Box of—
39752	Set of 3 Deluxe Jig Saw Blades	Yes	1
39747	Coarse Set Tooth Metal Cutting	—	5
39748	Fine Set Tooth Metal Cutting	—	5
39754	Fine Set Tooth Hi-Speed Steel Taper Ground	—	10
39755	Coarse Set Tooth (Narrow) Hi-Speed Steel Taper Ground	—	10
39756	Coarse Set Tooth (Wide) Hi-Speed Steel Taper Ground	—	5
39749	DELUXE Taper Ground Fine Tooth	Yes	3
39750	DELUXE Taper Ground Medium Tooth	Yes	3
39751	DELUXE Taper Ground Coarse Tooth	Yes	3
39753	Knife Blade (for leather, rubber, etc.)	—	5
39757	Fine Set Tooth Hi-Speed Steel	—	5
39758	Coarse Set Tooth Hi-Speed Steel	—	5

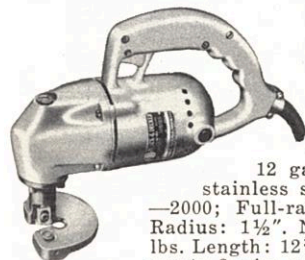
No. 12 ELECTRIC SHEAR

CUTS ALL TYPES of sheet metal or wire netting easily and accurately. Excellent heavy-duty production tool. Simple blade adjustment.

Capacity in Steel (U. S. Standard):

12 gage (.1046")—14 gage in Monel or stainless steel. Strokes per minute: No-load—2000; Full-rated load—1400. Minimum Cutting Radius: 1 1/2". Net Wt.: 11 lbs.; Ship. Wt.: 13 1/2 lbs. Length: 12 3/4"; Height: 10 1/4". Standard Equipment: 3-wire cable and plug; trigger switch with locking pin; one set of Shear blades; set-screw wrench; B&D-built "Universal" Motor for 115 or 220 volts, A.C. or D.C.

Cat. No. 507 "No. 12" Electric Shear (Specify Voltage)
Standard Voltage—115 or 220. On special Order, 125 or 240 volts.
No. 33088 Replacement Blade Kit for "No. 12" Shear



No. 16 ELECTRIC SHEAR

SMOOTH, ACCURATE CUTTING IN ALL TYPES OF SHEET METAL up to No. 16 gage. Cuts cold rolled steel at 30 feet per minute! Steel deflector plate prevents curling or fouling of material. Simple blade adjustment quickly accommodates changes in material thickness. Small, compact, cool-running — comfortable to handle.

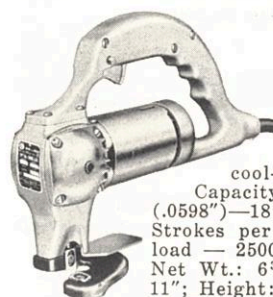
Capacity in steel (U. S. Standard): 16 gage (.0598")—18 gage in Monel or stainless steel. Strokes per minute: No-load—3300; Full-rated load—2500. Minimum cutting radius: 3/4". Net Wt.: 6 3/4 lbs.; Ship. Wt.: 8 1/2 lbs. Length: 11"; Height: 9 1/4". Standard Equipment: One set of tool steel Shear Blades, set-screw wrench, B&D-Built "Universal" Motor for 115 or 220 volts, A.C. or D.C. (125 V. or 240 V. available on

special order), die-cast "Saddle-back" Handle with instant-release trigger switch and locking pin, 3-wire cable and plug.

Cat. No. 259 "No. 16" Electric Shear (Specify Voltage)

No. 32105 Replacement Blade Kit for "No. 16" Shear

No. 33202 Shear Blade Sharpener

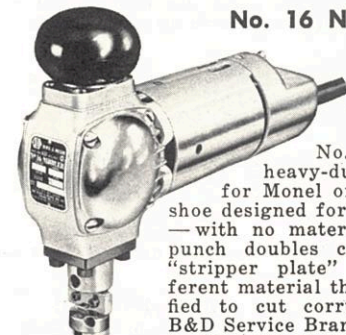


No. 16 NIBBLER

For CONTINUOUS PRODUCTION CUTTING in all types of sheet metal up to No. 18 gage (No. 20 gage for Monel or stainless steel; No. 16 gage for intermittent

heavy-duty cutting of steel, (18 gage for Monel or stainless steel). Punch and shoe designed for clear visibility while cutting — with no material wave or curl. Reversible punch doubles cutting efficiency. Adjustable "stripper plate" quickly accommodates different material thicknesses. Tool can be modified to cut corrugated sheet metal—contact B&D Service Branch for information. Capacity in steel (U. S. Standard): 16 gage (.0598"), in stainless steel: 20 gage (.0359"). Strokes per minute: No-load—3300; Full-rated load—2500. Minimum cutting radius: Outside edge—1"; Inside edge—13/16". Net Wt.: 5 1/2 lbs., Ship. Wt.: 7 lbs. Length: 9 1/4". Height: 7 1/2". Standard Equipment: Punch and die, set-screw wrench, removable Knob with extra punch compartment, B&D-Built "Universal" Motor for 115 or 220 volts, A.C. or D.C. (125 V. or 240 available on special order), heavy-duty toggle switch, 3-wire cable and plug.

Cat. No. 632 "No. 16" Nibbler (Specify Voltage)
Cat. No. 39043 Punch and Die Set
Cat. No. 39351 Set of 5 Punches
Cat. No. 39348 Special Carbide Die



6 1/2" HEAVY-DUTY SAW

Max. Cutting Depth (Cat. No. 63): 2-5/32" at 90°; 1 1/8" at 45°

Max. Cutting Depth (Cat. No. 660): 2-3/32" at 90°; 1-13/16" at 45°

Cat. Nos. 63 and 660

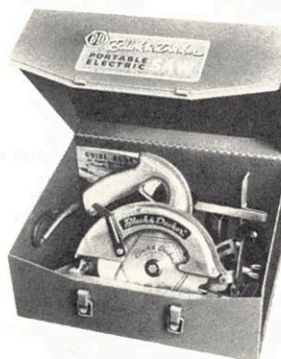
An excellent "on-the-job" Saw for builders, carpenters, and independent contractors. Makes every normal building cut. Takes the rough spots without slowing down or overheating. Fully adjustable and with all modern safety features. Lubricant-sealed ball-bearings.

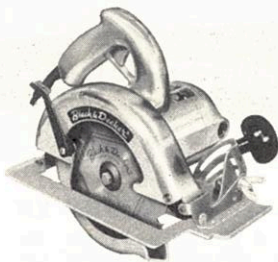
6 1/2" dia. Combination Blade (5/8" arbor hole). Max. Depth—of-cut (Cat. No. 63) at 90°—2-5/32"; at 45°—1 1/8" (dressed 2" lumber). Max. Depth—of-cut (Cat. No. 660): at 90°—2-3/32"; at 45°—1-13/16" (dressed 2" lumber). B & D Motor. 115 or 220 volts A.C. or D.C. (125 or 240 volts available on special order). No-load speed: 5500 R.P.M. Length: 12-5/16" Width: 9 3/4". Height: 10 3/4". Wt. (Cat. No. 63): Net—11 lbs.; Ship—15 1/2 lbs. Wt. (Cat. No. 660): Net—11 lbs.; Ship—25 lbs. Includes: 2-pole instant-release trigger switch, 6-1/2" Combination Blade, 3-wire cable and plug. (Cat. No. 660 includes rip fence and carrying case).

Cat. No. 63 6 1/2" H.D. Saw only (without front Knob handle).

Cat. No. 660 6 1/2" H.D. Saw (with rip fence and carrying case).

Buy Saw, Rip Fence, Carrying Case Combination and SAVE!





7 1/4" HEAVY-DUTY SAW

Max. Cutting Depth: 2 3/8" at 90°; 1-15/16" at 45°.

Cat. Nos. 730 and 760

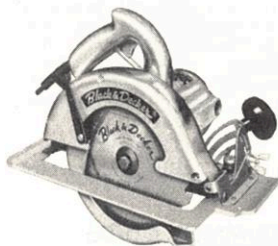
Heat-treated heavy-duty gears and lubricant-sealed ball-bearings assure top performance in all sawing operations. Adjustments for depth—of-cut and bevel angles from 90° to 45°. Has all modern construction and safety features. Converts to Chain Saw or Saw Table.

7 1/4" dia. Combination Blade (5/8" Arbor Hole). Max. Depth—of-cut: at 90°—2 3/8" to 2 3/4"; at 45°—3/16" to 1-15/16". B & D Motor. 115 or 220 volts A.C. or D.C. (125 or 240 volts on Special Order). No-load speed: 4700 R.P.M. Length: 13 3/4" Width: 9 1/2" Height: 11-5/16". Wt. (Cat. No. 730): Net—13 1/4 lbs. Ship. 21 lbs. Wt. (Cat. No. 760): Net—12 1/4 lbs. Ship.—27 lbs. Includes: 2-pole instant-release trigger switch, 7 1/4" Combination Blade, 3-wire cable and plug. (Cat. No. 760 includes rip fence and carrying case).

Cat. No. 730 7 1/4" Heavy-Duty Saw only.

Cat. No. 760 7 1/4" H.D. Saw (with rip fence and carrying case).

Buy saw, Rip Fence, Carrying Case Combination and SAVE!



8" HEAVY-DUTY SAW

Max. Cutting Depth: 2-23/32" at 90°; 2-3/16" at 45°

Cat. Nos. 830 and 860

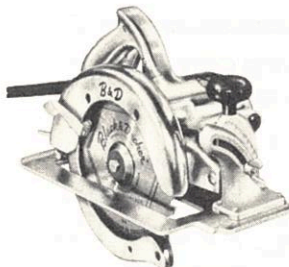
Completely Heavy-Duty—with B & D Saw Motor, heat-treated gears and gear shafts—all mounted on lubricant-sealed ball-bearings. Has all modern adjustments and safety features. Cuts variety of building material with the proper blade. Converts to chain Saw or Saw Table.

8" dia. Combination Blade (5/8" arbor hole). Max. Depth—of-cut: at 90°—2-23/32" to 2-23/32"; at 45°—5/32" to 2-3/16". B & D Motor. 115 or 220 volts A.C. or D.C. (125 or 240 volts available on special order). No-load speed: 4500 R.P.M. Length: 14 1/4" Width: 9 3/4" Height: 11-11/16". Wt. (Cat. No. 830): Net—14 1/2 lbs. Ship.—20 1/2 lbs. Wt. (Cat. No. 860): Net—14 lbs. Ship.—36 lbs. Includes: 2-pole instant-release trigger switch, 8" Combination Blade, 3-wire cable and plug. (Cat. No. 860 includes rip fence and carrying case).

Cat. No. 830 8" Heavy-Duty Saw only.

Cat. No. 860 8" H.D. Saw (with rip fence and carrying case)

Buy Saw, Rip Fence, Carrying Case Combination and SAVE!



8 1/4" HEAVY-DUTY SAW

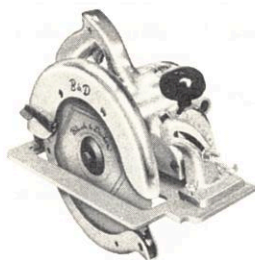
Max. Cutting Depth: 2-13/16" at 90°; 2-1/16" at 45°

Cat. No. 80

Lubricant - sealed ball - bearings throughout. Automatic - trigger switch. Completely adjustable for all cuts. Large wing nuts permit front and rear adjustments to maintain a level sawing position. Heavy-Duty quadrant permits quick and easy adjustments for bevel cuts.

8 1/4" dia. Combination Blade (1 3/8" arbor hole). Max. Depth—of-cut: at 90°—2-13/16" to 2-13/16"; at 45°—2 1/8". B & D Motor. 115 or 220 volts A.C. or D.C. (125 or 240 volts available on special order). No-load speed: 4500 R.P.M. Length: 14 1/4" Width: 9-3/16" Height: 11 1/4". Wt.: Net—14 1/2 lbs.; Ship.—19 1/2 lbs. Includes: 2-pole instant-release trigger switch, 8 1/4" Combination Blade, 3-wire cable and plug.

Cat. No. 80 8 1/4" Heavy-Duty Saw only.



9 1/4" HEAVY-DUTY SAW

Max. Cutting Depth: 3 1/4" at 90°; 2 3/8" at 45°.

Cat. Nos. 90 and 960

A husky, durable Saw with abundant power for sawing lumber up to 3 1/4" thick; Lubricant-sealed ball-bearings. Heavy-Duty throughout. Has all modern adjustments and safety features. With proper blade, will cut practically any building material. B & D Built Saw Motor.

9 1/4" dia. Combination Blade (1 3/8" arbor hole). Cutting Depth Range at 90° Front adjustment only—2 1/8" to 3 1/4"; Rear adjustment only—1 1/2" to 3 1/4"; Both Adjustments—1 1/4" to 3 1/4". Max. Depth—of-cut at 45°: 2 3/8". B & D Built Motor for 115 or 220 volts, A.C. or D.C. (125, 240 volts available on special order). No-load speed: 3700 R.P.M. Length: 14 1/2". Width: 9 1/2". Height: 11 3/4". Wt. (Cat. No. 90): Net—15 1/2 lbs., Ship.—21 lbs. Wt. (Cat. No. 960): Net—15 1/2 lbs., Ship.—39 lbs. Includes: 2-pole instant-release trigger switch, 3-wire cable and plug, 9 1/4" Combination Blade. (Cat. No. 960 includes rip fence and carrying case).

Cat. No. 90 9 1/4" Heavy-Duty Saw only.

Cat. No. 960 9 1/4" H.D. Saw (with rip fence and carrying case).

Buy Saw, Rip Fence, Carrying Case Combination and SAVE!



HEAVY-DUTY SAW TABLE

Convert your B & D Portable Saw into a rugged professional-type stationary table—or Bench Saw* in a matter of minutes. Features: Rigid Construction, 484 Sq.-inch work surface, Tilting-Arbor Action, Adjustable Rip Fence, Accurate Blade Height, Chip Deflector, "Knee-Action" Switch.

*Table top can easily be lowered to level of horizontal braces by sawing off legs. Same brace bolts are used.

Fits current Cat. Nos. 63, 660, 730, 760, 80, 830, and 860 Saws. Also fits previous 6", 6 1/2", 7" and 8" B & D Saws.

Table Size: Height—32 1/2"; Width—22"; Depth—22"; Maximum Surface in Front of Blade—11". Maximum Surface Right of Blade—11 1/2". To figure maximum cutting depth for saw table with any specific B & D Saw, allow 1/4" for thickness of table top. (Subtract this figure from max. cutting depth of saw. Wt.: Net—44 lbs.; Ship.—48 lbs.

Cat. No. 2311 Saw table (with "Knee-Action" Switch and Chip Deflector).

Cat. No. 2313 Saw table (without "Knee-Action" Switch and Chip Deflector).

Cat. No. 2314 Plastic Chip Deflector

Cat. No. 2315 "Knee-Action" Switch

Saw and Table Combination

Buy both at once and SAVE!

Cat. No. 1018 Saw and Table Combination—includes No. 63 H.D. Saw and No. 2313 Saw Table.

CHAIN SAW ATTACHMENT

Quickly converts 7 1/4" or 8" B & D Heavy-Duty Saws into a Chain Saw. Trims and fells trees (up to 18" in dia.), cuts logs, beams, planking, etc. Makes pocket cuts. Blade extension permits cutting 10" dressed lumber. Recommended for 7 1/4" and 8" H.D. Saws.

Wt.: Net — 3 lbs., Ship. — 3 3/8" lbs.

Cat. No. 2312 Chain Saw Attachment

Cat. No. 39896 Replacement Saw Chain

Saw and Chain Saw Combination

Buy Both at once and SAVE!

Cat. No. 1020 Saw and Chain Saw Combination—includes Cat. No. 730 H.D. Saw and Chain Saw Attachment above.

Cat. No. 1030 Saw and Chain Saw Combination—includes Cat. No. 830 H.D. Saw and Chain Saw Attachment above.

RIP FENCE

Use on either side of Saw for fast, smooth rip sawing. Fits all B & D Saws.

Cat. No. 1915 Rip Fence Std. Equipment with Cat. Nos. 660, 760, 860 and 960 Saws.



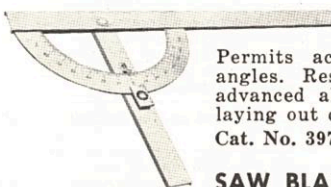
SAW CARRYING CASES

Protect your Saw investment with this durable, all-steel carrying case. Fittings hold Saw securely while being carried. Has room for Rip Fence and extra cable. Bracket in back holds additional blades.

Cat. No. 1713 Designed for 6 1/2", No. 63, 7 1/4" and No. 73 Saws. Will

also fit previous 6" and 7" Model Saws.

Cat. No. 1913 Designed for 8", No. 80, 8 1/4", No. 83, 9 1/4", No. 90, and No. 93 Saws.



SAW PROTRACTOR

Permits accurate Saw Cuts—0° to 90° angles. Rests on board and saw shoe is advanced along straight edge. Useful in laying out carpentry angles.

Cat. No. 39761 Saw Protector

SAW BLADE ADAPTORS

To adapt blades with 1 1/8" and 1 3/8" arbor holes to smaller saw blade arbors.

No. 34728 Adaptor—Reduces 1 1/8" Hole to 1/2"

No. 34729 Adaptor—Reduces 1 1/8" Hole to 5/8"

No. 34725 Adaptor—Reduces 1 3/8" Hole to 1/2"

No. 34726 Adaptor—Reduces 1 3/8" Hole to 5/8"

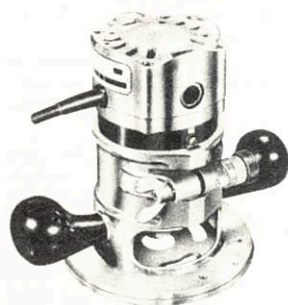
No. 34727 Adaptor—Reduces 1 3/8" Hole to 3/4"

No. 34730 Adaptor—Reduces 1 3/8" Hole to a diamond shape.



Black & Decker® THE COMPLETE LINE •

1 H.P. HEAVY-DUTY ROUTER



Efficiently designed for speed and accuracy in performing finest joinery and beautiful cabinet work — beading, grooving, routing, fluting, cove-cutting, dovetailing, etc. Properly fed work leaves an extremely smooth finish that requires very little sanding. Powered by a special B&D ROUTER MOTOR—at speeds up to 21,000 R.P.M. Other features include: heavy-duty ball-bearing

ings with lubricant permanently sealed; and collet-type chuck (with $\frac{1}{4}$ " and $\frac{3}{8}$ " collets). Two wrenches (standard equipment) tighten chuck.

Chuck Capacity $\frac{3}{8}$ "; Spindle Speed. 21,000 R.P.M.; Rack and Pinion Depth Adjustment Range: 0" to 1" (in 64ths); Total Linear Vertical Movement: 1-15/16"; B&D-Built ROUTER Motor for 115 volts or 220 volts, A.C. or D.C. (125 volts or 240 volts available on special order); Max. Capacity: 1 Horsepower; Overall Height: 6 $\frac{5}{8}$ "; Diameter of Motor Housing: 3 $\frac{1}{2}$ "; Diameter of Base: 5 $\frac{7}{8}$ "; Diameter of Sub-Base: 6". Net Weight: 7 lbs.; Shipping Weight: 10 lbs.

Standard Equipment: Heavy-duty 2-pole Toggle Switch, die-cast motor housing and base, 2 molded side handles, hard surface sub-base, collet-type chuck (with $\frac{1}{4}$ " and $\frac{3}{8}$ " collets). 2 open end wrenches for bit changing, built-in depth adjustment, 3-conductor cable and plug.

Cat. No. 14-3 1 H.P. H.D. Router



1 H.P. HEAVY-DUTY ROUTER KIT

Contains B & D 1 H.P. Router, No. 14-3, with collet-type chuck ($\frac{1}{4}$ " and $\frac{3}{8}$ " collets are furnished) which is easily fitted with all B & D Bits and Cutters. Includes Straight and Circular Guide—No. U-2403, B & D Manual, and Steel Kit Box which protects tools and keeps everything handy for on-the-job use.

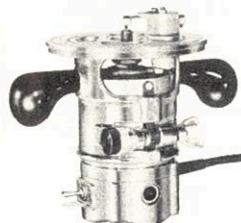
Cat. No. 17-3 1 H.P. H.D. Router Kit.

VENEER TRIMMER

An excellent tool for all types of plastic trimming, fabrication, and cabinet work. Includes: 1 H.P. H.D. Router with $\frac{1}{4}$ " collet-type chuck, Veneer Trimmer Guide (No. 39398), and Carbide Tipped Combination Trimming Bit (No. 39374).

Cat. No. 28 Veneer Trimmer

See Form 71 for V.T. Bits and Cutters.



VENEER TRIMMER GUIDE

Attaches to sub-base of any B & D Router to equip it for veneer trimming applications. Includes: Under-guide, Combination Flush and Bevel Veneer Trimming Bit, and Alignment Pin.

Cat. No. 39398 Veneer Trimmer Guide

Cat. No. 39336 Replacement Alignment Pin



BLACK & DECKER "KRO-BIDE" SAW BLADES

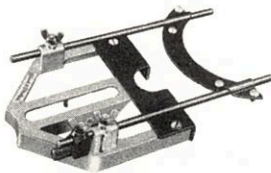
Black and Decker "Kro-Bide" Blades are manufactured from controlled allow steel to assure you FASTER, SMOOTHER CUTTING with LONGER BLADE LIFE. Designed to give the

most efficient results within blade's intended range of usage —providing greater economy in cutting every type of building material. Always use a SHARP Blade.

Type of Blade	For all Heavy-Duty and Super-Service Saws Arbor Hole Size: (6 $\frac{1}{2}$ ", 7 $\frac{1}{4}$ ", 8" Blades)— $\frac{5}{8}$ "; (8 $\frac{1}{4}$ " and 9 $\frac{1}{4}$ " Blades)—1 $\frac{1}{4}$ "					For previous 6" and 7" Models. Arbor Hole Size: (6" and 7" Blades)—1 $\frac{1}{8}$ "	
	6 $\frac{1}{2}$ " Saw and "No. 63"	7 $\frac{1}{4}$ " Saw and "No. 73"	8" Saw and "No. 83"	8 $\frac{1}{4}$ " Saw	9 $\frac{1}{4}$ " Saw and "No. 93"	6" Saw	7" Saw
COMBINATION BLADE —This is the latest type, fast-cutting blade for general service ripping and crosscutting. Each blade carries the correct number of teeth to cut chips rather than scrape sawdust. Blade teeth receive less wear and stay sharp longer . . . and give definitely smoother cuts.	39573	39574	39575	39709	39549	39707	39708
CROSSCUT BLADE —Designed specifically for fast, smooth cross-cutting. Makes a smoother cut than the Combination Blade listed above.	39591	39597	39603	39712	39555	39710	39711
PLANER BLADE —This blade makes VERY SMOOTH cuts—both rip and crosscut. Ideal for interior woodwork. Hollow-ground to produce the finest possible saw-cut finish.	39592	39598	39604	39715	39554	39713	39714
FLOORING BLADE —This is the correct blade to use on jobs where occasional nails may be encountered. Especially useful in cutting through flooring, sawing reclaimed lumber and in opening boxes and crates in a receiving department.	39593	39599	39605	39718	39557	39716	39717
CARBIDE TIPPED BLADES —The keenest and most durable blade yet developed for faster, smoother and longer sawing without blade sharpening. Tungsten carbide tips are brazed into this special alloy steel blade for a diamond-like cutting edge that will stay sharp up to 50 times longer than steel. Cuts wood, transite, Cemesto board, asbestos, formica, masonite, composition siding and roofing materials, etc.	39596	39601	39606	39607	39607	39721	39722
METAL-CUTTING BLADE —Has teeth shaped and set for cutting soft, non-ferrous metals, including lead.	39595	39602	39608	39731	39559	39729	39730
FRICTION BLADE —Ideal for cutting corrugated galvanized sheets. Cuts faster, with less dirt, than abrasive disc. Blade is taper-ground for clearance.	39594	39594	39600	39720	39560	—	39719
ABRASIVE DISC —This blade is of the top-quality, reinforced resinoid abrasive Cut-off type. For cutting and slotting in ceramics, slate, marble, tile, transite, etc. Also cuts thin gage metals listed below:							
SILICON CARBIDE , for cutting ceramics, non-ferrous metals, etc.:	39609	39610	39611	39725	39556	39723	39724
ALUMINUM OXIDE , for ferrous metal cutting:	39612	39613	39614	39728	39558	39726	39727

Black & Decker®

1 H.P. ROUTER ATTACHMENTS

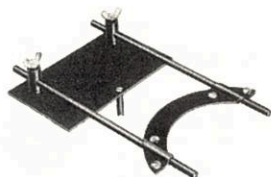


STRAIGHT AND CIRCULAR GUIDE

Enables operator to make straight, curved, or angular cuts with ease and accuracy. Attaches to Router Base with two large wing nuts. Fully adjustable—built-in vernier-type adjustment provides the precise measurement required in fine

woodwork. Guide may be reversed for routing inside edges, such as rabbeting for screen frames, etc.

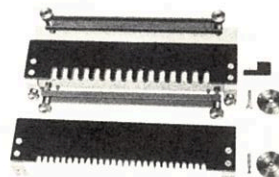
Cat. No. U-2403 Straight and Circular Guide



SLOT AND CIRCLE CUTTING ATTACHMENT

Equips Router for cutting evenly spaced slots and grooves, discs, circular holes and concentric designs. Adjusts for diameter or lengths from 1" to 22" in circle cutting, or slot cutting.

Cat. No. U-2401 Slot and Circle Cutting Attachment



DOVETAIL KIT

Permits dovetail joints to be made with speed and accuracy. Kit contains everything needed to equip Router for making dovetails in wood from 7/16" to 1" thick.

Includes: 7/16" Template Guide large Dovetail Template, No. U-2413, Dovetail Fixture, 1/2" Finger Template, 9/16" Dovetail Bit and 19/32" Depth Gage.

Cat. No. U-2412 Dovetail Kit

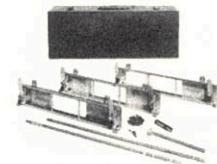
Buying Advantage (over buying items separately)

For making 1/4" Dovetails in wood from 5/16" to 3/8" thick, use following items with Cat. No. U-2413 listed above.

Cat. No. U-2408 5/16" Template Guide for small Dovetail Template.

Cat. No. U-2416 1/4" Finger Template

Cat. No. U-2565 9/32" Dovetail Bit



HINGE MORTISING TEMPLATE KIT

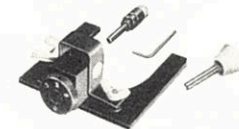
Contains everything necessary to fully equip B&D Router for production speed in accurately hanging doors, shutters, etc.

Includes: Template Guide, Frame Assembly, Corner Chisel, Hinge Mortising and Gaining Bit, Complete

Instructions. Packed in steel Kit Box with hinged lid.

Cat. No. 39369 Hinge Mortising Template Kit

Cat. No. 39370 Hinge Mortising Template Guide

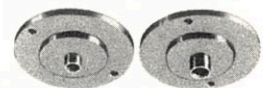


BIT AND CUTTER SHARPENER

Uses Router power to turn out precision-ground cutting edges on all B&D Bits and Cutters. Grinding Wheel is fitted to chuck and Bit or Cutter is locked in attachment.

Cat. No. U-2419 Bit and Cutter Sharpener.

Cat. No. U-2423 Replacement Grinding Wheel



TEMPLATE GUIDES

Easily fitted to Router: used for guiding tool along patterns for perfect duplication.

Cat. No. U-2404 Template Guide

Cat. No. U-2405 Template Guide

B & D ROUTER BITS—1/4" Shanks

COVE BITS—TWO FLUTES

Cat. No.	A	B	C	D	E
U-2570	3/16"	1/4"	1/4"	1"	3/16"
U-2571	3/16"	1/4"	1/4"	1"	3/16"
U-2572	3/16"	3/8"	1/4"	7/8"	3/16"
U-2573	1/2"	3/4"	1/4"	7/8"	3/16"

HINGE MORTISING & GAINING BIT

Cat. No.	A	B	C	D
U-2590	1/2"	3/8"	1/4"	1 1/8"

BEADING BITS—TWO FLUTES

Cat. No.	A	B	C	D	E
U-2530	1/16"	3/16"	1/4"	1"	3/16"
U-2531	1/8"	3/8"	1/4"	1"	3/16"
U-2532	3/8"	3/4"	1/4"	7/8"	3/16"
U-2533	1/2"	3/4"	1/4"	7/8"	3/16"

STRAIGHT BITS—SINGLE FLUTE

Cat. No.	A	B	C	D
U-2510	1/8"	3/8"	1/4"	1"
U-2511	5/32"	3/8"	1/4"	1"
U-2512	3/16"	7/16"	1/4"	1"
U-2513	7/32"	7/16"	1/4"	1"

DOVETAIL BITS

Cat. No.	A	B	C	D
U-2565	9/32"	3/8"	1/4"	1 1/4"
U-2566	9/16"	1 1/2"	1/4"	1 1/2"

CORE BOX BITS—TWO FLUTES

Cat. No.	A	B	C	D
U-2550	1/4"	1/4"	1/4"	1"
U-2551	3/16"	3/16"	1/4"	1"
U-2552	3/8"	3/8"	1/4"	1"
U-2553	1/2"	3/4"	1/4"	1"
U-2554	1/2"	1 1/2"	1/4"	1"
U-2555	3/8"	3/8"	1/4"	1"
U-2556	5/8"	3/8"	1/4"	1"
U-2557	1 1/16"	1 1/8"	1/4"	1"
U-2558	3/4"	1 3/2"	1/4"	1"

"V" GROOVING BITS

Cat. No.	A	C	D
U-2560	3/8"	1/4"	1"
U-2561	7/8"	1/4"	7/8"

CHAMFERING BIT—TWO FLUTES

Cat. No.	A	B	C	D
U-2575	1/2"	3/16"	1/4"	1"

ROUNDING OVER BITS—2 FLUTES

Cat. No.	A	C	D	E
U-2520	3/16"	1/4"	1"	3/16"
U-2521	1/8"	1/4"	1"	3/16"
U-2522	5/16"	1/4"	1"	3/16"
U-2523	3/8"	1/4"	7/8"	3/16"
U-2524	1/2"	1/4"	7/8"	3/16"

ROMAN OGEE BITS

Cat. No.	A	B	C	D	E	F
U-2580	5/16"	1/8"	1/4"	1"	3/16"	3 1/2"
U-2581	1/4"	3/4"	1/4"	7/8"	3/16"	1 3/16"

STRAIGHT BITS—TWO FLUTES

Cat. No.	A	B	C	D
U-2501	1/4"	5/8"	1/4"	1"
U-2502	5/16"	3/4"	1/4"	1"
U-2503	3/8"	1 1/16"	1/4"	1"
U-2504	7/16"	1 1/16"	1/4"	1"
U-2505	1/2"	3/4"	1/4"	1"
U-2506	9/16"	5/8"	1/4"	1"
U-2507	5/8"	5/8"	1/4"	1"
U-2508	3/4"	5/8"	1/4"	1"
U-2601	1/2"	1 1/8"	1/4"	1 3/16"
U-2602	5/16"	1 1/8"	1/4"	1 3/16"

OGEE BITS

Cat. No.	A	B	C	D	E	F
U-2585	3/16"	5/8"	1/4"	1"	3/16"	1 3/16"
U-2586	3/32"	29/32"	1/4"	7/8"	3/16"	1 3/16"

VEINING BITS—SINGLE FLUTE

Cat. No.	A	B	C	D
U-2540	1/8"	3/16"	1/4"	1"
U-2541	3/16"	3/16"	1/4"	1"
U-2542	5/32"	3/16"	1/4"	1"

RABBETING BITS—1" LENGTH

Cat. No.	A	B	C	Width Rabbet	E
U-2577	11/16"	7/16"	1/4"	3/8"	3/16"
U-2578	15/16"	7/2"	1/4"	3/8"	3/16"

Black & Decker ROUTER CUTTERS

Made of selected hi-speed tool steel. Only B&D Cutters are recommended for use with B&D Router. Cutters have 5/16" center bore to fit U-2430 Arbor (next column).

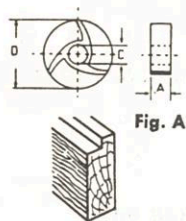


Fig. A

(A) STRAIGHT FACE CUTTERS

Cat. No.	A	C	D
U-2700	1/8"	5/16"	1 1/8"
U-2701	3/16"	5/16"	1 1/8"
U-2702	1/4"	5/16"	1 1/8"
U-2703	3/8"	5/16"	1 1/8"
U-2704	1/2"	5/16"	1 1/8"
U-2705	3/8"	5/16"	1 1/8"
U-2706	3/4"	5/16"	1 1/8"
U-2707	7/8"	5/16"	1 1/8"
U-2708	1"	5/16"	1 1/8"

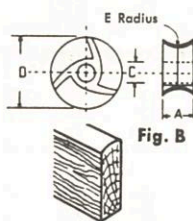


Fig. B

(B) CONCAVE CUTTERS

Cat. No.	A	C	D	E
U-2710	1 1/4"	5/16"	1 1/8"	1/8"
U-2711	1 3/4"	5/16"	1 1/8"	3/16"
U-2712	2 3/4"	5/16"	1 1/8"	1/4"
U-2713	7/16"	5/16"	1 1/8"	5/16"
U-2714	1 1/2"	5/16"	1 1/8"	3/8"
U-2715	5/8"	5/16"	1 1/8"	1/16"
U-2716	45/64"	5/16"	1 1/8"	1/2"
U-2717	51/64"	5/16"	1 1/8"	9/16"
U-2718	57/64"	5/16"	1 1/8"	5/8"
U-2719	31/32"	5/16"	1 1/8"	11/16"
U-2720	1 1/16"	5/16"	1 1/8"	3/4"

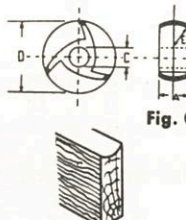


Fig. C

(C) CONVEX CUTTERS

Cat. No.	A	C	D	E
U-2730	1 1/4"	5/16"	1 13/64"	1/8"
U-2731	1 3/4"	5/16"	1 13/64"	3/16"
U-2732	2 3/4"	5/16"	1 13/64"	1/4"
U-2733	7/16"	5/16"	1 5/16"	5/16"
U-2734	1 1/2"	5/16"	1 11/32"	3/8"
U-2735	45/64"	5/16"	1 21/64"	1/2"

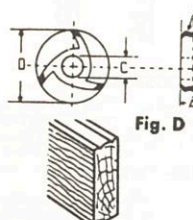


Fig. D

(D) CORNER BEAD CUTTERS

Cat. No.	A	C	D	E
U-2740	1/4"	5/16"	1 13/64"	1/8"
U-2741	1 1/4"	5/16"	1 13/64"	3/16"
U-2742	7/16"	5/16"	1 13/64"	1/4"

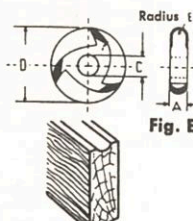


Fig. E

(E) FLUTING CUTTERS

Cat. No.	A	C	D	E
U-2745	1/4"	5/16"	1 1/8"	1/8"
U-2746	3/8"	5/16"	1 1/4"	1/4"

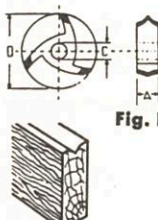


Fig. F

(F) SPINDLE BEAD CUTTERS

Cat. No.	A	C	D
U-2750	5/16"	5/16"	1 21/64"
U-2751	3/8"	5/16"	1 23/64"
U-2752	7/16"	5/16"	1 3/8"

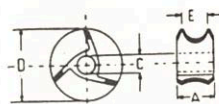


Fig. G

(G) SURFACE BEAD CUTTERS

Cat. No.	A	C	D	E
U-2755	3/8"	5/16"	1 1/8"	3/16"
U-2756	3/2"	5/16"	1 1/8"	5/16"
U-2757	1 1/16"	5/16"	1 1/8"	1/4"



Fig. H

(H) "V" RABBETING CUTTERS

Cat. No.	A	C	D
U-2760	1/4"	5/16"	1 1/8"
U-2761	3/8"	5/16"	1 21/32"

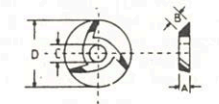


Fig. I

(I) CHAMFER CUTTERS

Cat. No.	A	B	C	D
U-2780	3/16"	3/32" L.H.	5/16"	1 1/8"
U-2781	3/16"	3/32" R.H.	5/16"	1 1/8"

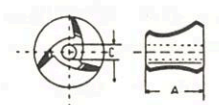


Fig. J

(J) THUMBOLD CUTTER

Cat. No.	A	C
U-2765	1 1/16"	5/16"

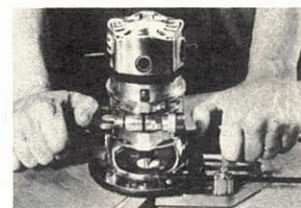
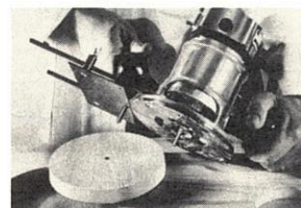
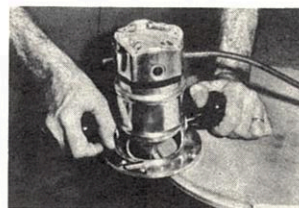
ARBORS FOR B & D CUTTERS



Receives one or more Cutters, for single cut or combination router-shaping. Includes 5 spacers and lock nut. Arbor Length: (for 1/4" chuck)—2-15/16"; (for 3/8" chuck)—3-3/16".

Cat. No. U-2430 Arbor for 1/4" Router Chuck

Cat. No. 45265 Arbor for 3/8" Router Chuck





Black & Decker® THE COMPLETE LINE •

PORTABLE ELECTRIC HAMMERS

Greatly speeds up any drilling or cutting operations requiring a hammer action. For drilling and channeling in concrete, stone or brick; removing form marks from concrete surfaces; caulking joints and seams in tanks, pipe lines, etc.; and removing scale in boilers, tanks, etc.

With each hammer you get: Carrying Case, Star Drill, 2 Tool Retainers, Chuck Wrench, Dust Shield, Drift Key and Can of Oil.

Standard Voltage—115 or 220. On Special order 125 or 240 volts. Ideal for installing SELF-DRILLING EXPANSION DEVICES.

½" PORTABLE ELECTRIC HAMMER



Save TIME and MONEY when drilling small holes in concrete by using this B&D ½" Portable Electric Hammer. By actual tests it has been proved that this B&D Electric Hammer is 2-1/3 times faster than the old-fashioned hand operated method of drilling.

Operating Range:

Efficient..... ¼" to ½" diam. hole;
Extreme..... ¼" to 1 ½"

Number of blows per minute..... 2400

Weight: Net..... 5 ¼ lbs.; Shipping..... 14 ½ lbs.

Overall length..... 12 7/8"

Cat. No. 102 (Specify Voltage)

¾" PORTABLE ELECTRIC HAMMER



A rugged ELECTRIC HAMMER made to give years of trouble-free service. Powered by the famous B&D Custom-Built Motor designed especially for this tool. Five times faster than hand operated hammer!

Operating Range:

Efficient..... ¼" to ¾" diam. hole;
Extreme..... ¼" to 1 ½"

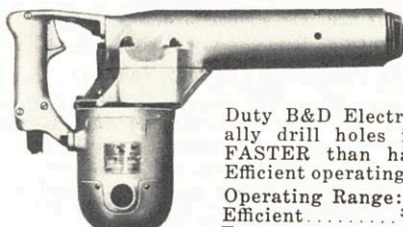
Number of blows per minute..... 2300

Weight: Net..... 10 ¼ lbs.; Shipping..... 20 ¼ lbs.

Overall length..... 14 5/8"

Cat. No. 103 (Specify Voltage)

1 ½" PORTABLE ELECTRIC HAMMER



DIG into drilling costs by speeding up drilling and cutting operations with this Heavy-Duty B&D Electric Hammer. Will actually drill holes in concrete 13 TIMES FASTER than hand operated hammer. Efficient operating procedure demands it!

Operating Range:

Efficient..... ¾" to 1 ½" diam. hole;
Extreme..... ¾" to 2"

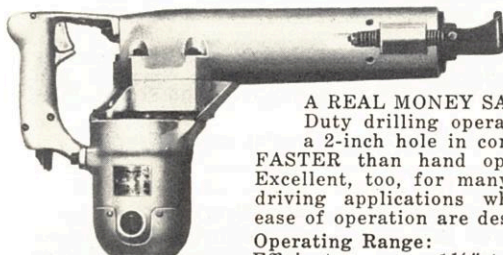
Number of blows per minute..... 2200

Weight: Net..... 19 ¼ lbs.; Shipping..... 33 lbs.

Overall length..... 18 5/8"

Cat. No. 104 (Specify Voltage)

2" PORTABLE ELECTRIC HAMMER (Type E)



A REAL MONEY SAVER for Heavy-Duty drilling operations. Will drill a 2-inch hole in concrete 32 TIMES FASTER than hand operated hammer. Excellent, too, for many other hammer driving applications where speed and ease of operation are desired.

Operating Range:

Efficient..... 1 ¼" to 2" diam. hole;
Extreme..... 11/16" to 2"

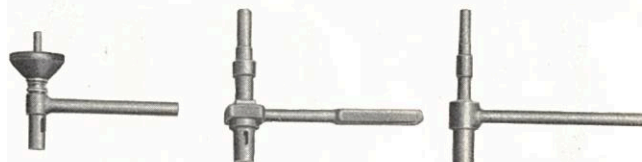
Number of blows per minute..... 1950

Weight: Net..... 29 ¼ lbs.; Shipping..... 47 lbs.

Overall length..... 20 ¼"

Cat. No. 105 (Specify Voltage)

CHUCK WRENCHES and TURNING HANDLES



No. 22587 Chuck Wrench — shown with No. 17746 Dust Shield attached.

No. 22510 Chuck Head with No. 21726 Turning Handle.

No. 33747 Chuck Head with No. 33745 Turning Handle.

Cat. No.	Item	Shank No.	Takes Taper	Use with Hammer
22587	Chuck Wrench	1	A	1 ¼" & 1 ½"
23806	Chuck Wrench	1	B	1 ½" & 2"
22749	Chuck Wrench	2	A	1 ½" & 2" Type C
22754	Chuck Wrench	2	B	1 ½" & 2" Type C
22510	Chuck Head	2	B	1 ½" & 2" Type C
33747	Chuck Head	4	B	2" Type D & E
21726	Turning Handle			1 ½" & 2" Type C
33745	Turning Handle			2" Type D & E

STAR DRILLS



For ¼" to ¾" hole sizes (Taper "A" Shank). Use with ½" or ¾" Hammers. Can also be used with 1 ½" Hammer, but requires an extra Chuck Wrench (No. 22749) for use with this tool.

Cat. No.	Point Diam.	Over-all Lgth.	Qty. in box	Cat. No.	Point Diam.	Over-all Lgth.	Qty. in box
7167	1/4"	5"	6	7162	5/8"	9"	6
7168	3/8"	5"	6	9372	5/8"	18"	1
7160	3/8"	5"	6	7171	11/16"	9"	6
7169	1/2"	5"	6	7163	3/4"	9"	6
7161	1/2"	9"	6	9380	3/4"	18"	1
9364	1 1/2"	18"	1	9382	3/4"	24"	1
7170	1 1/2"	9"	6				

For 11/16" to 1 ½" hole sizes (Taper "B" Shank). Mainly for use with 1 ½" Hammer. Can also be used with:—¾" Hammer (Requires additional Chuck Wrench No. 23806). 2" Hammer —type "C" (Requires additional Chuck Head No. 22510). 2" Hammers—types "D" and "E" (Requires additional Chuck Head No. 33747).

24673	1 1/16"	9"	6	9390	7/8"	24"	1
23081	3/4"	9"	6	7173	1 1/16"	9"	6
23082	3/4"	18"	1	7096	1"	9"	6
23083	1 1/4"	24"	1	9396	1"	18"	1
7172	1 1/16"	9"	6	9398	1 1/8"	24"	1
7097	7/8"	9"	6	10751	1 1/8"	12"	6
9388	7/8"	18"	1	10981	1 1/8"	24"	1

For 1 ¼" to 2" hole sizes (Shank No. 4). Use with latest, 2" Hammers, type "D" and "E" only.

33757	1 1/4"	18"	1	33762	1 1/4"	30"	1
33758	1 1/4"	30"	1	33763	1 3/4"	18"	1
33759	1 3/4"	18"	1	33764	1 3/4"	30"	1
33760	1 3/4"	30"	1	33765	2"	18"	1
33761	1 1/2"	18"	1	33766	2"	30"	1

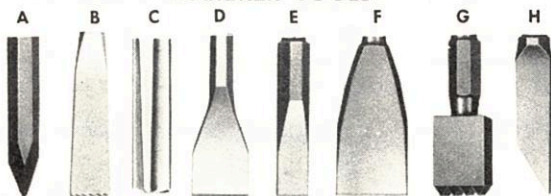
For 1 ¼" to 2" hole sizes (Shank No. 2). Use with former 2" Hammer, type "C". Can also be used with 1 ½" Hammer, but requires additional Turning Handle No. 21726.

21942	1 1/4"	18"	1	21947	1 1/2"	30"	1
21943	1 1/4"	30"	1	21948	1 3/4"	18"	1
21944	1 3/4"	18"	1	21949	1 3/4"	30"	1
21945	1 3/4"	30"	1	21950	2"	18"	1
21946	1 1/2"	18"	1	21951	2"	30"	1



Black & Decker® THE COMPLETE LINE •

HAMMER TOOLS



COLD CHISELS (E)

Cat. No.	Size
11108	5/8" x 8"
7095	7/8" x 9"
9405	7/8" x 20"
34857	7/8" x 12"
33659	7/8" x 20"

SCALING CHISELS (D)

Cat. No.	Size
12446	1 1/4" x 9"
17314	1 1/2" x 9"
17315	2" x 9"
12401	1 1/2" x 12"
22886	2" x 12"
22887	2 1/2" x 12"
34858	2 1/2" x 12"

FLAT WOOD CHISEL (F)

Cat. No.	Size
9039	2" x 9"

* 1/2" or 3/4" Hammer.
† 1 1/2" or 2" (Type C) Hammer.
** 2" Hammer (Type D & E).

MISCELLANEOUS HAMMER TOOLS

17232	9"	Seam Tool (H) 1/2" or 3/4" Hammer
9035	9"	Seam Tool (H) 1 1/8" or 2" Hammer (Type C)
23804	10"	Bull Point (A) 1/2" or 3/4" Hammer
23805	18"	Bull Point (A) 1/2" or 3/4" Hammer
9036	12"	Bull Point (A) 1 1/8" or 2" Hammer (Type C)
9410	20"	Bull Point (A) 1 1/8" or 2" Hammer (Type C)
33662	12"	Bull Point (A) 2" Hammer (Type D & E)
33663	20"	Bull Point (A) 2" Hammer (Type D & E)
11624	8"	Bushing Tool (G) 1/2" or 3/4" Hammer
9040	9"	Bushing Tool (G) 1 1/8" or 2" Hammer (Type C)
10684		Bushing Tool Head Only
17335	9"	4-Point Scaling Tool (C) 1/2" or 3/4" Hammer
32112	11 1/2" x 1 1/4"	Concrete Slotting Tool (B) 1/2" or 3/4" Hammer
32113	18" x 1 1/2"	Concrete Slotting Tool (B) 1 1/8" or 2" Hammer (C)
33670	18"	Concrete Slotting Tool (B) 2" Hammer (Type D & E)
11107	10"	Tool Blanks 1/2" or 3/4" Hammer
7267	12"	Tool Blanks 1 1/8" or 2" Hammer (Type C)
33666	12"	Tool Blanks 2" Hammer (Type D & E)

HAMMER LUBRICATING OIL

22926	4 oz. Can
22930	1 Lb. Container
22931	2 Lb. Container
32906	5 Lb. Container

HAMMER GEAR GREASE

36391	1 Lb. Can
36392	2 Lb. Can
36393	5 Lb. Can

DRIFT KEY—Used to remove taper-shank bits from socket of Chuck Wrench.

Cat. No. 7276 For all Chuck Wrenches

TOOL RETAINING SPRINGS—To hold straight-shank tools in nose-piece of Hammer.

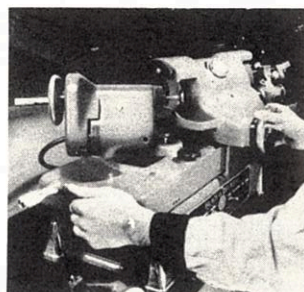
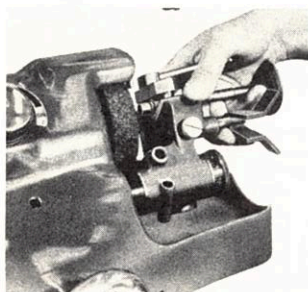
Cat. No. 10909 For 1/2" x 3/4" Hammers

Cat. No. 21750 For 1 1/8" Hammer

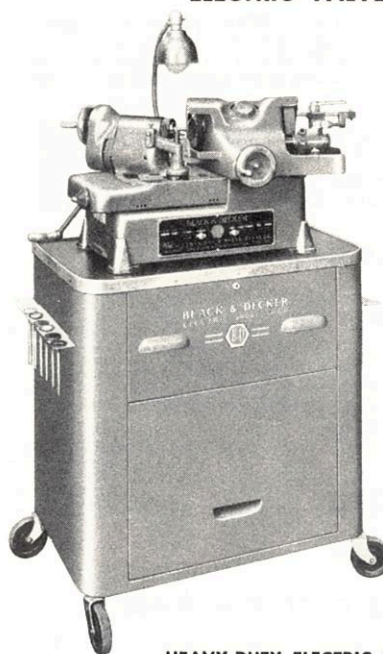
DUST SHIELDS—Used in over-head drilling to prevent dust from entering nose-piece of Hammer.

Cat. No. 17746 For Chuck Wrenches Nos. 22587, 23806 and 22510

Cat. No. 17747 For Chuck Wrenches Nos. 22749 and 22754



ELECTRIC VALVE SHOPS



A complete valve reconditioning "shop" on wheels. Smart display of precision equipment helps sell reconditioning jobs; sturdy metal cabinet carries all tools necessary for complete, accurate job right at the car. Roomy cabinet top holds Deluxe Super-Service Refacer; large drawer has definite space for each item of Vibro-Centric equipment, including Pilots, Stones and Sleeves, plus carbon cleaning brushes, and valve guide cleaners; lower storage section for Vibro-Centric Driver, Dressing Stand and other items such as gaskets, drills, etc.

Cabinet Dimensions: Height, 35"; width, 35"; depth, 20".

HEAVY-DUTY ELECTRIC VALVE SHOP

- 1 Valve Shop Cabinet.
- 1 No. 550 Deluxe Super-Service Refacer (Wet Grinding).
- 1 Leatherette Refacer Cover.
- 1 Heavy-Duty Driving Unit (55°).
- 3 Valve Guide Cleaners: No. 37558 (5/16"); No. 37561 (3/8"); No. 37561 (7/16").
- 2 Carbon Cleaning Brushes: No. 21416 (Heavy-Duty); No. 21417 (Side Flare).
- 1 Standard Stone Dressing Stand—No. 20153.
- 2 Standard Stone Sleeves—No. 22100.
- 7 Self-Centering Pilots } As itemized in No. 597 Heavy-Duty
- 3 Hard-Seat Stones } Vibro-Centric Kit.
- 9 Soft-Seat Stones }
- Standard Voltages—115 or 220. On special order 125 or 240 volts. Shipping Weight 286 lbs.

Cat. No. 552 Heavy-Duty Valve Shop (Specify Voltage)

Also available for those shops not requiring The Deluxe Refacer with provisions for Valve Stem, Tappet and Rocker Arm grinding operations—

Cat. No. 464 Heavy-Duty Valve Shop with No. 282 Refacer. Shipping Weight—269 lbs.

Cat. No. 22173 Adjustable Lamp for Valve Shops

SUPER-SERVICE ELECTRIC VALVE SHOP

- 1 Valve Shop Cabinet.
- 1 No. 550 Deluxe Super-Service Refacer (Wet Grinding).
- 1 Leatherette Refacer Cover.
- 3 Valve Guide Cleaners: No. 37558 (5/16"); No. 37560 (3/8"); No. 37561 (7/16").
- 2 Carbon Cleaning Brushes: No. 21416 (Heavy-Duty); No. 21417 (Side Flare).
- Contents of No. 651 Super-Service Vibro-Centric Kit; including Heavy-Duty Driving Unit, Standard Dressing Stand, 2 Ball Bearing Stone Sleeves, 8 Self-Centering Pilots, 15 Stones, Pilot Turning Wrench.
- Standard Voltages—115 or 220. On special order 125 or 240 volts.
- Shipping weight 296 lbs. Specify Voltage.

Cat. No. 554 Heavy-Duty Deluxe Valve Shop

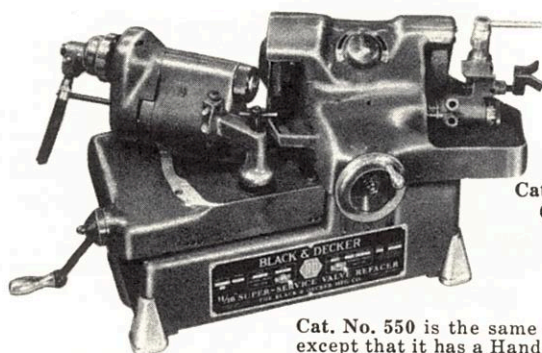
Also available for those shops not requiring The Deluxe Refacer with provisions for Valve Stem, Tappet and Rocker Arm grinding operations—

Cat. No. 340 Super-Service Valve Shop with No. 282 Refacer

Cat. No. 31363 Valve Shop Cabinet only. Type E—35"x35"x20". Shipping Weight—118 lbs.

Black & Decker®

DELUXE SUPER-SERVICE VALVE REFACER



Cat. No. 626

Cat. No. 550 is the same as above except that it has a Hand-tightening Chuck instead of an Air Chuck.

Precision-Built with new improvements for quieter and smoother operation. Gives perfect "grinds" every time and has increased workhead speed to give faster grinding on most valve sizes.

Two Black & Decker "universal" motors independently drive the collet and wheel spindles for abundant, smooth power. Grinding oil pump is mounted on the wheel-head motor with one valve directing the grinding oil to either wheel.

Examine the many other exclusive features listed above and shown on the facing page; and then, let this outstanding "buy" in quality valve grinding equipment increase your business and pay for itself out of savings.

FEATURING

- 9/32" to 11/16" Valve Stem Capacity. Capacity can be extended to include 7/32" stems by adding collet No. 36552.
- 0° to 90° Valve Angle Adjustment—traverse grind at any angle.
- 4" Valve Head Capacity.
- New Air Chuck assures greater ease and efficiency when performing long series of "production" valve jobs.
- Belt-driven work head spindle with reduction gearing at motor eliminates any chance of "chatter" on valve face.
- Wet grinding at both valve and attachment wheels.
- Universal wheel dresser swivels aside when grinding valves.
- 1-gallon tank with baffle plates to clean grinding oil.
- 4-point bearing suspension on both work and wheel tables.
- Bearing adjustment on feed screws with automatic end play takeup.
- Quick acting collet clamp with double-lead thread.

GENERAL SPECIFICATIONS:

Valve Head Capacity..... Up to 4"
Valve Stem Capacity..... See individual listings.
Valve Face Angle Adjustment..... 0° to 90°
Voltage..... Available for either 115 volts or 220 volts.
125 volts or 240 volts available on special order.

Standard Equipment..... Two B&D "universal" motors, 1-gal. grinding oil tank, wheel dresser with diamond, 2-valve stem collets, 5" grinding wheel, grinding oil and leatherette cover. Nos. 626, 650 and 602 Refacers also include a complete Valve Stem, Tappet and Rocker Arm Grinding Attachment with 4" grinding wheel. No. 626 Refacer also includes an Air Chuck, Hand-tightening Chuck, and can of Grinding Oil.

Cat. No. 626 Deluxe Super-Service Valve Refacer with Air Chuck. Range 9/32" to 11/16". (Ship Wt.—159½ lbs.)

All Models listed below have a quick-acting hand wheel for tightening valve stem in chuck—

Cat. No. 550 Deluxe Super-Service Valve Refacer — Range 9/32" to 11/16" stems. (Illustrated above.) (Shipping Weight—146 lbs.)

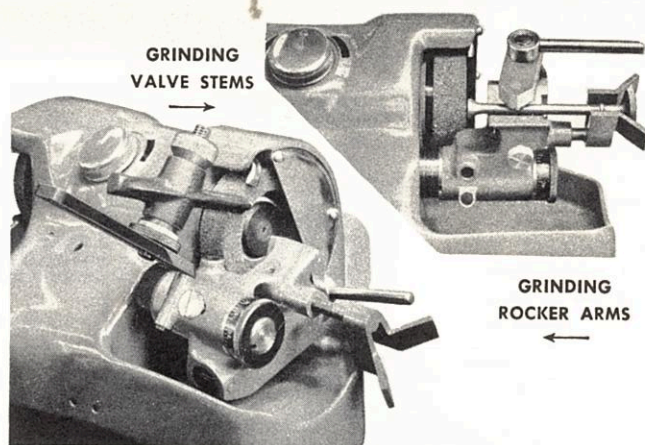
Cat. No. 602 Deluxe Super-Service Valve Refacer — Range 9/32" to ¾" stems. Available on special order. (Shipping Weight—146 lbs.)

Cat. No. 282 Refacer. Same as Cat. No. 550 except for elimination of Valve Stem and Rocker Arm Grinding Attachment. (Shipping Weight—129 lbs.)

Cat. No. 598 Refacer. Same as Cat. No. 602 except for elimination of Valve Stem and Rocker Arm Grinding equipment. Available on special order. (Ship. Weight—129 lbs.)

Cat. No. 37886 Air Chuck (Can be fitted to current cataloged models of Type "T" or "TD" Refacer).

MICROMETER VALVE STEM AND ROCKER ARM GRINDING ATTACHMENT



This Attachment is extremely accurate, and also quick and efficient in operation. It assembles to the outside end of the wheel-head spindle and permits: (1) grinding valve stems to obtain exact tappet clearance on Ford type valves, (2) squares all other valve stems, (3) grinds and trues tappets, (4) grinds and restores the correct radius to all automotive rocker arms.

Cat. No. 34818 Complete Valve Stem and Rocker Arm Grinding Attachment

*Use diamond point supplied with Refacer.

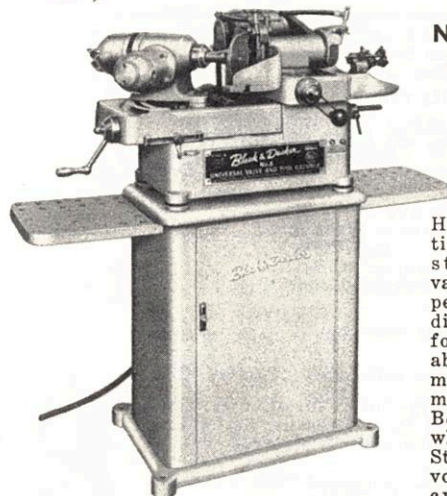
HUDSON VALVE-LIFTER GRINDING ATTACHMENT

Used with No. 34818 Attachment. Assembles to rocker arm grinding set-up in place of double cone clamp.

No. 34219 Hudson Grinding Attachment

REFACER REPLACEMENT and ACCESSORY EQUIPMENT

- No. 20939 4" Recessed Wheel for Stem and Rocker Arm Grinding
- No. 18325 Standard Collet (9/32" to 9/16" capacity)
- No. 15200 Standard Collet (½" to 11/16" capacity)
- No. 36552 Special Collet for short valve stems (7/32" to 13/32" capacity)
- No. 17745 Special Collet for short valve stems (½" — 11/16" capacity)
- No. 5574 Diamond and Nib for Wheel Dresser
- No. 20380 9-oz Can Grinding Wheel Coolant
- No. 22946 Pint Can Grinding Wheel Coolant
- No. 22947 Quart Can Grinding Wheel Coolant
- No. 22173 Adjustable, "goose-neck" lamp with Socket, Switch, etc.
- No. 34976 Hypoid Oil, 9-oz. can (for "RCB," "PC," "PCB" and "P" Refacers)
- No. 34253 Grinding Oil—1 gal.
- No. 11462 Pin Wrench for tightening Refacer Workhead
- No. 36187 5" Grinding Wheel, grade C120-K5V—for fine finish on all types of valves
- No. 36347 5" Grinding Wheel, grade A60-K5V—for grinding hard steel valves (stellite and silchrome)
- No. 34131 Standard 5" Wheel for refacing valves
- No. 34135 V-Belt for Wheel Motor (RCB, PC, PCB, and P Refacers)
- No. 37366 V-Belt for Work Head Motor (Type "T" and "TD")



No. 6 UNIVERSAL VALVE & TOOL GRINDER

An unequalled combination of engineering and operating features makes this Heavy-Duty Production Grinder the outstanding leader in valve reconditioning performance. Ask your distributor salesman for more information about the many automatic features of this machine; or send for B&D's Form 1 Catalog which gives more data. Standard Voltage: 115 volts, 1 ph., 50-60 cycles. Additional Voltages available.

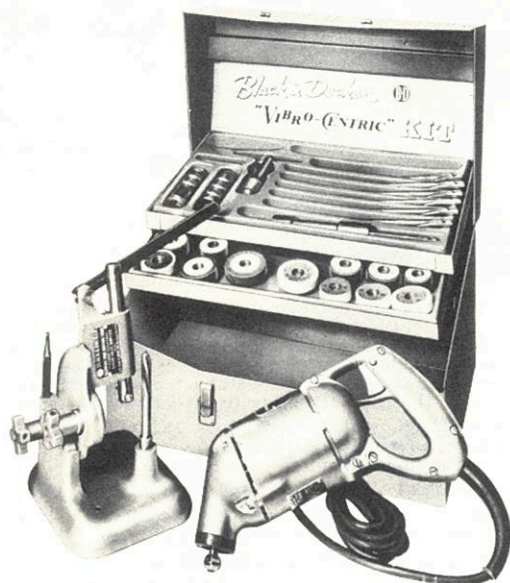
Give complete characteristics of your current when ordering.
Cat. No. 522 "No. 6" Universal Valve & Tool Grinder



Black & Decker® THE COMPLETE LINE •

"VIBRO-CENTRIC"

METHOD
KITS



VIBRO-CENTRIC KITS, listed below, contain assortments of precision valve seat grinding equipment ready for on-the-job use. Complete Kits (Nos. 597, 651) carry all equipment necessary to recondition a wide range of popular engines. Basic Kits (Nos. 456, 650) enable the service shop to add the stones and pilots that it needs to meet its own particular or special requirements.

SUPER-SERVICE KITS are designed for large volume shops, and shops specializing in valve work. These Kits include Ball-bearing Stone Sleeves and a Standard Stone Dressing Stand to minimize wear and preserve accuracy for an extremely long productive period.

No. 597 HEAVY-DUTY KIT

- 1—No. 331 55° Heavy-Duty Vibro-Centric Driver
- 1—No. 20153 Standard Stone Dressing Stand
- 2—No. 22100 Standard Stone Sleeves
- 7—Gruv-Top, Self-Centering Pilots
- 3—Hard Seat Vibro-Centric Stones
- 9—Soft Seat Vibro-Centric Stones
- 1—Heavy-Duty Kit Box

Cat. No. 597 (Specify voltage)

No. 456 HEAVY-DUTY BASIC KIT

- 1—No. 331 55° Heavy-Duty Vibro-Centric Driver
- 1—No. 20153 Standard Stone Dressing Stand
- 2—No. 22100 Standard Stone Sleeves
- 1—Heavy-Duty Kit Box

Cat. No. 456 (Specify voltage)

No. 651 SUPER-SERVICE KIT

- 1—No. 331 55° Heavy-Duty Vibro-Centric Driver
- 1—No. 20153 Standard Stone Dressing Stand
- 2—No. 27200 Ball-Bearing Stone Sleeves
- 1—No. 19829 Pilot Turning Wrench
- 8—Gruv-Top, Self-Centering Pilots
- 5—Hard Seat Vibro-Centric Stones
- 10—Soft Seat Vibro-Centric Stones
- 1—Heavy-Duty Kit Box

Cat. No. 651 (Specify voltage)

No. 650 SUPER-SERVICE BASIC KIT

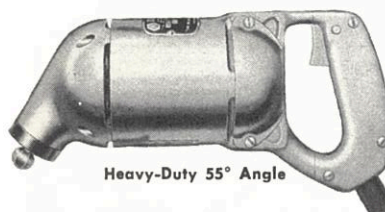
- 1—No. 331 55° Heavy-Duty Vibro-Centric Driver
- 1—No. 20153 Standard Stone Dressing Stand
- 2—No. 27200 Ball-Bearing Stone Sleeves
- 1—Heavy-Duty Kit Box

Cat. No. 650 (Specify voltage)

PURCHASE OF COMPLETE VIBRO-CENTRIC KIT OFFERS SUBSTANTIAL SAVINGS OVER BUYING ITEMS SEPARATELY.

"VIBRO-CENTRIC"

VALVE SEAT GRINDERS



Heavy-Duty 55° Angle

Vibro - Centric Valve Seat Grinding restores "factory accuracy" and a mirror finish to either cast - iron or hard steel valve seats by a high-speed, concentric dry grind with an exclusive patented, built - in vibrating action.

HEAVY-DUTY 55° ANGLE VIBRO-CENTRIC DRIVER

The most popular Driver in use today in both large and small volume shops. Has ample power for maintaining correct grinding speed with the larger, heavier stones often required in tractors, trucks and larger automobile engines. 55° Angle Drive improves clearance where obstructions interfere.

Spindle Speed 12,000 R.P.M.
Weight: Net 6¾ lbs.; Shipping 8¾ lbs.
Overall Length 11½"
Standard Voltages—115 or 220. On special order 125 or 240 volts.

Cat. No. 331 (Specify voltage)

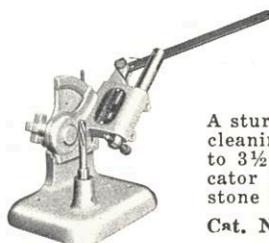
No. 6 VIBRO-CENTRIC PRODUCTION DRIVER

A superlative tool for shops handling valve reconditioning on a continuous production basis. Available in two separate models: (1) A 8500 RPM Unit for maximum production on valve seats requiring stones up to and including 4" in diameter. (2) A 6000 RPM Unit to handle the large stones often required in Diesel, truck and tractor work.

Spindle Speed 8500 R.P.M. or 6000 R.P.M.
Stone Capacity 0" to 4" or 4-1/16" to 6"
Net Weight 7½ lbs.; Shipping Weight 9 lbs.
Overall length 13¾"

Cat. No. 546 (Specify speed and voltage)

Standard Voltages—115 or 220 (125 or 240 volts on special order).



STANDARD STONE DRESSING STAND

A sturdy, die-cast Stand for trimming and cleaning all sizes and angles of Stones up to 3½" diameter. Its accurate angle indicator is easy to set and insures accurate stone dressing.

Cat. No. 20153

BALL BEARING STONE SLEEVE

Designed to minimize wear, to preserve accuracy and give longer service. Ball-bearings are between inner and outer sleeve.

Cat. No. 27200 With retainer ball for "Gruv-Top" Pilots

Cat. No. 19825 Without retainer ball

STANDARD STONE SLEEVE

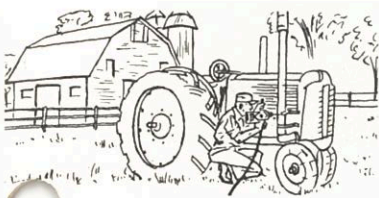
Long Bronze bushing accurately reamed to fit Pilot.

Cat. No. 22100

SHORT STANDARD STONE SLEEVE

For increased clearance on hard-to-reach seats. Overall length, 2¾". Use with Dressing Stand 20153 with 25247 Mandrel.

Cat. No. 23652



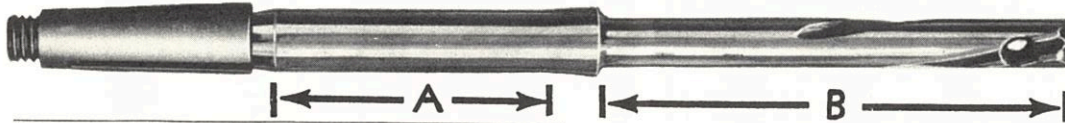
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"GRUV-TOP" AUTOMOTIVE SELF-CENTERING PILOTS

Self-Centering Pilots provide an accurate, rigid axis for the operation of Vibro-Centric Stones. The Pilot has two accurately machined tapers, one at the top which fits into the top of the valve guide, and one at the bottom, on which a split sleeve expands into the lower end of the guide. The expanding feature is important in compensating for worn guides; also eliminates a large stock of "oversize" pilots, as Self-Centering Pilots expand from .020" to .030".

"A" Dimension is from bottom of top taper, to top of bottom taper.

"B" Dimension is from top of top taper to top end of pilot.



Nominal Size	Range	Catalog No	Dimensions	
			A	B
1/4"	.233"—.254"	14423 25245 36900*	1 1/16"	2 7/8"
1 1/8"—9/32"	.262"—.290"	25181	1 1/8"	3 1/4"
9/32"—13/64"	.277"—.303"	15792 25175* 25177* 25213	1 1/8"	3 1/2"
5/16"—31/64"	.308"—.339"	14425 18608 16213* 19895 23484 25315 25204 20970 25202*	1 1/8"	3"
5/16" (c't. bore)	.308"—.399"	25173* 25179* 21300*	1 1/8"	3 1/2"
1 1/2"—3 1/4"	ctrb. guide	23633 21302	1 1/8"	3 1/2"
1 1/2"—3 1/4"	.339"—.370"	16199 14426 24319* 26528 24310 26818* 25267†	1 1/8"	3 1/4"
3/8"—31/64"	ctrb. guide	21304	1 1/8"	3 1/2"
3/8"—31/64"	.371"—.394"	14427 16201* 17345 32061 16204 23937 20667 16207* 17901 25217* 25281* 25823*	1 1/8"	3 1/4"
2 3/4"	.391"—.406"	25206 17001* 25304* 25306*	2"	3 1/2"
1 1/2"—31/64"	.402"—.424"	14428 16826 17396*	1 1/8"	3 1/2"
1 1/8"—31/64"	.433"—.455"	14429 24343* 22989 15179	2 1/8"	3 1/4"
1 1/8"—31/64"	.433"—.455"	23971 15743 17903 16784 23337 25221 25219 36860 17873* 23165* 23973*	2 1/8"	3 1/4"

Nominal Size	Range	Catalog No	Dimensions	
			A	B
1/8" (c't. bore)	.433"—.455"	25208*	1 1/8"	4 5/8"
1 1/8"—31/64"	.464"—.495"	14430 16999*	2 1/8"	3 1/2"
1/2"—17/32"	.496"—.535"	14431 16047 23975 23665 26908 19894 22184 25225 17643* 16786*	2"	3 5/8"
1/2" (c't. bore)	.496"—.535"	24345*	2"	3 1/2"
1 1/2"—31/64"	.5312"—.5625"	27108*	2 1/8"	3 1/2"
3/16"—13/32"	.558"—.598"	14432 23522 26864* 15656* 19203* 26110*	2"	3 5/8"
3/16" (c't. bore)	.558"—.598"	25198* 25215*	2 1/8"	4"
1 1/2"	.588"—.598"	14435	3 1/4"	3 1/2"
5/8"—21/64"	.621"—.661"	14433 23939 23578* 21062* 26143* 31126* 18006*	2"	3 5/8"
1 1/2"—31/64"	.683"—.724"	15178* 24446* 25325*	2"	4 1/8"
3/4"—25/64"	.746"—.786"	27110 25237* 26495*	7 1/2"	5 7/8"
1 1/2"	.8115"—.8135"	14877	.....	.....

"GRUV-TOP" PLUG TYPE AUTOMOTIVE PILOTS

Range	Catalog No.	Engine
.8458"—.8525"	18248	Ford "60"
1.0278"—1.0330"	14155	Ford "V-8"
1.029"—1.033"	22337	Lincoln Zephyr

Most popular sizes shown above in bold face type.

*Supplied on special order only. Delivery in 90 days from receipt of order.

†For use with No. 23652 Short Stone Sleeve on 6th exhaust valve on Chrysler, DeSoto and Kaiser 6-cylinder cars.

PILOT TURNING WRENCH

Prevents injury to user's hands while inserting or removing Pilots. Equipped with chuck which quickly grasps or releases Pilot shank.

Cat. No. 19829

VALVE SEAT INDICATOR



For testing the concentricity of valve seats. Calibrated to 1/1000 of an inch. Plus or minus variations in the seat are read on the dial during rotation.

Cat. No. 13725

FLEXIBLE COUPLING



For use with a 1/4" Drill in grinding No. 6 valve seat on 6 cylinder DeSoto, Chrysler, and Kaiser engines. The heater interference on the above engines is overcome through the use of this coupling and a No. 23652 Short Stone Sleeve and a No. 25267 Pilot.

Cat. No. 37056

CARBON REMOVING BRUSHES



Made of tempered steel wire; used with 1/4" Drill, quickly clean carbon from cylinder heads, top of pistons, valve ports, etc., leaving a burnished surface.

Cat. No. 21419 Hollow core, flare bottom brush

Cat. No. 21417 Side flare brush for close corner work

Cat. No. 21416 Heavy duty solid wire-filled brush

Cat. No. 21418 Small brush for Valve Guide Ports



Black & Decker® THE COMPLETE LINE •

VIBRO-CENTRIC AUTOMOTIVE VALVE SEAT GRINDING STONES

"VIBRO-CENTRIC" Valve Seat Grinding Stones are carefully formed and accurately dressed at the factory to grind smooth, true faces on valve seats. They are made in three grades to do the fastest and most satisfactory work on all types of seats;

one grade is for the average cast iron or soft steel seats found in most engines; another grade is for faster grinding of hard steel, stellite and other hard alloy inserts; a third grade is for a highly polished "finish grind" on all seats.



Stones under 2 1/2" are vitrified. 2 1/2" in diameter and over are resinoid bonded.

Cat. No. 37556 2 1/2" x 90° Soft Narrowing Stone for 2 3/8" x 15° Seating Stone.

Diam-eter **	For Soft Steel and Cast Iron			For Hard Steel and Stellite			Diam-eter	For Finish-Grinding	
	45° Stone	30° Stone	15° Stone*	45° Stone	30° Stone	15° Stone*		45° Stone	30° Stone
1 1/4"	14216	14197	25676	14217	14218	.....	1 1/4"	14414	14413
1 1/2"	18541	25671	23666	18540	25670	23667	1 1/2"	18542	25672
1 3/4"	14084	14198	14092	14056	14219	14107	1 3/4"	14382	14370
1 5/8"	14063	14199	14093	14100	14287	14108	1 5/8"	14383	14371
1 7/8"	14085	14090	14094	14049	14105	14109	1 7/8"	14384	14372
2"	14086	14268	14095	14101	14288	14110	2"	14385	14373
2 1/8"	14064	14091	14096	14102	14106	14111	2 1/8"	14386	14374
2 1/4"	14087	14278	14097	14103	14289	14112	2 1/4"	14387	14375
2 3/8"	14088	14279	14098	14104	14290	14113	2 3/8"	14388	14376
2 1/2"	16929	25635	23668	16951	.....	23669	2 1/2"	23670	25636
2 3/4"	14089	14280	14099	14050	14291	14114	2 3/4"	14389	14377
2 5/8"	14285	14281	14274	14239	14292	14270	2 5/8"	14390	14378
2 7/8"	14153	14282	14275	14200	14293	14271	2 7/8"	14391	14379
3"	14286	14283	14276	14295	14269	14272	3"	14392	14380
3 1/8"	14154	14284	14277	14243	14294	14273	3 1/8"	14393	14381
3 1/4"	21465	16971	25749	.....	16970	25668	3 1/4"	21466	25583
3 3/8"	21468	.....	25951	21467	.....	25950	3 3/8"	21469	.....
3 1/2"	21471	.....	26449	.....	.....	26448	3 1/2"	21472	.....
3 3/4"	21474	26527	.....	21473	.....	.....	3 3/4"	21475	25634
3 5/8"	.....	.....	27831	.....	.....	.....	3 5/8"	.....	.....
3 3/2"	25629	.....	.....	17650	.....	.....	3 3/2"	25627	.....
3 7/8"	.....	.....	25630	.....	.....	25628	3 7/8"	.....	.....
4"	.....	25650	.....	.....	.....	.....	4"	25745	25633
4 1/8"	.....	25649	.....	.....	.....	.....	4 1/8"	.....	.....

See Master Catalog for Special and Multiple Angle Stones.

*15° Stones are used for both seating and narrowing operations. During inventory change-over, some stones bearing same catalog number may be supplied in 20°.

**Prices, specifications, and delivery of larger diameter stones will be furnished on application. Delivery is approximately 60 days after receipt of confirmation of order.

NUMERICAL LISTING OF GRINDING STONES IN ABOVE TABLE

Cat. No.	Diam-eter	Face Angle	Type	Cat. No.	Diam-eter	Face Angle	Type	Cat. No.	Diam-eter	Face Angle	Type	Cat. No.	Diam-eter	Face Angle	Type
14049	1 3/4"	45°	Hard	14197	1 1/4"	30°	Soft	14370	1 1/2"	30°	Finish	21469	3 1/4"	45°	Finish
14050	2 1/2"	45°	Hard	14198	1 1/2"	30°	Soft	14371	1 5/8"	30°	Finish	21471	3 3/8"	45°	Soft
14056	1 1/2"	45°	Hard	14199	1 5/8"	30°	Soft	14372	1 3/4"	30°	Finish	21472	3 5/8"	45°	Finish
14063	1 5/8"	45°	Soft	14200	2 3/4"	45°	Hard	14373	1 7/8"	30°	Finish	21473	3 1/2"	45°	Hard
14064	2"	45°	Soft	14216	1 1/4"	45°	Soft	14374	2"	30°	Finish	21474	3 1/2"	45°	Soft
14084	1 1/2"	45°	Soft	14217	1 1/4"	45°	Hard	14375	2 1/8"	30°	Finish	21475	3 1/2"	45°	Finish
14085	1 3/4"	45°	Soft	14218	1 1/4"	30°	Hard	14376	2 1/4"	30°	Finish	23666	1 5/8"	15°	Soft
14086	1 5/8"	45°	Soft	14219	1 1/2"	30°	Hard	14377	2 3/8"	30°	Finish	23667	1 3/4"	15°	Hard
14087	2 1/8"	45°	Soft	14239	2 5/8"	45°	Hard	14378	2 5/8"	30°	Finish	23668	2 5/8"	15°	Soft
14088	2 1/4"	45°	Soft	14243	3"	45°	Hard	14379	2 3/4"	30°	Finish	23669	2 5/8"	15°	Hard
14089	2 3/2"	45°	Soft	14268	1 7/8"	30°	Soft	14380	2 3/4"	30°	Finish	23670	2 5/8"	45°	Finish
14090	1 3/4"	30°	Soft	14269	2 7/8"	30°	Hard	14381	3"	30°	Finish	25583	3 1/8"	30°	Finish
14091	2"	30°	Soft	14270	2 5/8"	15°	Hard	14382	1 1/2"	45°	Finish	25627	3 3/4"	45°	Finish
14092	1 1/2"	15°	Soft	14271	2 3/4"	15°	Hard	14383	1 5/8"	45°	Finish	25628	3 1/2"	15°	Hard
14093	1 5/8"	15°	Soft	14272	2 7/8"	15°	Hard	14384	1 3/4"	45°	Finish	25629	3 3/4"	45°	Soft
14094	1 3/4"	15°	Soft	14273	3"	15°	Hard	14385	1 7/8"	45°	Finish	25630	3 3/8"	15°	Soft
14095	1 5/8"	15°	Soft	14274	2 5/8"	15°	Soft	14386	2"	45°	Finish	25633	4"	30°	Finish
14096	2"	15°	Soft	14275	2 3/4"	15°	Soft	14387	2 1/8"	45°	Finish	25634	3 1/2"	30°	Finish
14097	2 1/8"	15°	Soft	14276	2 7/8"	15°	Soft	14388	2 1/4"	45°	Finish	25635	2 5/8"	30°	Soft
14098	2 1/4"	15°	Soft	14277	3"	15°	Soft	14389	2 3/2"	45°	Finish	25636	2 5/8"	30°	Finish
14099	2 3/2"	15°	Soft	14278	2 1/8"	30°	Soft	14390	2 5/8"	45°	Finish	25649	4 1/8"	15°	Soft
14100	1 5/8"	45°	Hard	14279	2 1/4"	30°	Soft	14391	2 3/4"	45°	Finish	25650	4"	15°	Soft
14101	1 7/8"	45°	Hard	14280	2 1/2"	30°	Soft	14392	2 7/8"	45°	Finish	25668	3 1/4"	15°	Hard
14102	2"	45°	Hard	14281	2 5/8"	30°	Soft	14393	3"	45°	Finish	25670	1 5/8"	15°	Hard
14103	2 1/8"	45°	Hard	14282	2 3/4"	30°	Soft	14413	1 1/4"	30°	Finish	25671	1 3/8"	30°	Soft
14104	2 1/4"	45°	Hard	14283	2 7/8"	30°	Soft	14414	1 1/4"	45°	Finish	25672	1 5/8"	30°	Finish
14105	1 3/4"	30°	Hard	14284	3"	30°	Soft	16929	2 5/8"	45°	Soft	25676	1 1/4"	15°	Soft
14106	2"	30°	Hard	14285	2 5/8"	45°	Soft	16951	2 7/8"	45°	Hard	25745	4"	45°	Finish
14107	1 1/2"	15°	Hard	14286	2 7/8"	45°	Soft	16970	3 1/8"	30°	Hard	25749	3 1/4"	15°	Finish
14108	1 5/8"	15°	Hard	14287	1 5/8"	30°	Hard	16971	3 3/8"	30°	Soft	25950	3 1/4"	15°	Hard
14109	1 3/4"	15°	Hard	14288	1 7/8"	30°	Hard	17650	3 3/4"	45°	Soft	25951	3 1/4"	15°	Soft
14110	1 7/8"	15°	Hard	14289	2 1/8"	30°	Hard	18540	1 5/8"	45°	Hard	26449	3 3/8"	15°	Soft
14111	2"	15°	Hard	14290	2 1/4"	30°	Hard	18541	1 7/8"	45°	Soft	26448	3 3/8"	15°	Hard
14112	2 1/8"	15°	Hard	14291	2 1/2"	30°	Hard	18542	1 5/8"	45°	Finish	26527	3 1/2"	30°	Soft
14113	2 1/4"	15°	Hard	14292	2 5/8"	30°	Hard	21465	3 1/8"	45°	Soft	27831	3 5/8"	15°	Soft
14114	2 3/2"	15°	Hard	14293	2 3/4"	30°	Hard	21466	3 3/8"	45°	Finish				
14153	2 3/4"	45°	Soft	14294	3"	30°	Hard	21467	3 1/4"	45°	Hard				
14154	3"	45°	Soft	14295	2 7/8"	45°	Hard	21468	3 3/4"	45°	Soft				

NYLON VALVE GUIDE CLEANERS



Employing DuPont "TYNEX" Nylon, these brushes do a superlative job in cleaning guides. They CLEAN BETTER, LAST LONGER and WON'T SCRATCH the interior surface of the guide.

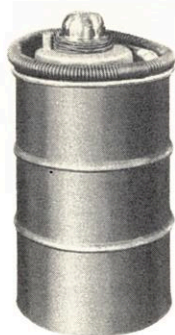
Cat. No.	Guide Size	Cat. No.	Guide Size
37557	1/4"	37562	1/2" - 9/16"
37558	5/16"	37563	5/16"
37559	11/16"	37564	3/4"
37560	3/8"	37565	Ford V8-60
37561	7/16"	37566	Ford V8-85

VALVE GUIDE CLEANER ASSORTMENT

Three of the most popular sizes of Nylon Valve Guide Cleaners in a Handy Plastic Pouch (5/16", 11/32" and 3/8"). Packaged to give a convenient holder which affords quick identification of Cleaner size. Also substantial saving by purchasing in package of three.

Cat. No. 37375 Valve Guide Cleaner Assortment





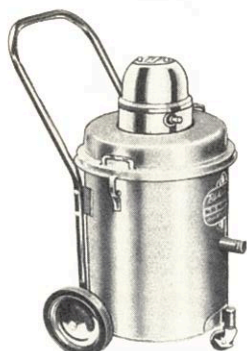
NEW No. 55 HEAVY-DUTY DRUM VACUUM CLEANER

Ideal for big-capacity vacuuming or material recovery. Capacity: Dry—6¼ bushels, Wet—40 gals. Includes: Vacuum cleaning power unit with B & D motor operating on 115 volts A.C. or D.C. (125, 220 or 240 volts available on special order); lid assembly with swivel connector for hose (lid fits any standard 55 gal. open head type drum); 10 ft. 1½" dia. accordion type, neoprene, static-proof hose; 25 ft. of 3 conductor oil resistant cord and plug. Ship. Wt.: 52¼ lbs.

Cat. No. 55 Vacuum Cleaner

Accessory Dolly: fits 55 gallon drum—adds convenient mobility.

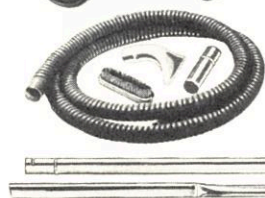
Cat. No. 45375 Dolly (for No. 55 Vacuum Cleaner)



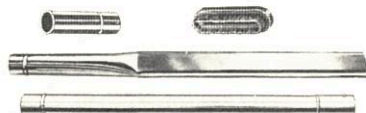
No. 648 FURNACE CLEANER

Adapts Top Vacuum Power to Heavy-Duty Furnace Cleaning. Includes: a No. 65 Vacuum Cleaner (furnace cleaning, type CF—see listing at bottom of page for facts) with the following items as Standard Equipment: Semi-Rigid, Extra Heavy-Duty Hose; Metal End-Protector for Hose; 26" Chrome-plated, Extra Heavy-Duty Metal Crevice Tool; Standard 6" Nozzle; 6" Scratch Brush for 6" Nozzle; 2 ft. Straight Extension Tube; and Orlon Dust Bag which fits over regular dust bag. Ship. wt.: 69¼ lbs.

Cat. No. 648 Furnace Cleaner, complete



FURNACE CLEANING ATTACHMENT ASSORTMENT



The following items permit owners of B&D Nos. 65 & 55 Vacuum Cleaners to adapt these units to furnace cleaning operations: No. 39093 Metal End-Protector for No. 33058; No. 39094 26" Chrome-plated Metal Crevice Tool; No. 39131 6" Scratch Brush for standard 6" Nozzle; No. 37122 2 ft. Straight Extension Tube; No. 38978 Non-Clogging Orlon Dust Bag. Ship. Wt.: 4½ lbs.

Cat. No. 39242 Assortment, complete with above 5 items.

Note: Order items for replacement by individual catalog number.

No. 65 VACUUM CLEANER



Features: 1¼ H.P. Max. B&D Motor; large wheels for easy moving... front wheel locks to prevent "creeping"; unit can be used as a blower. Suction Mechanism: Universal Motor drives 2-stage, turbine type centrifugal fan. Sealed suction—68" water lift. Voltage: 115 or 220 volts. On special order—125 or 240 volts. Capacity: Dry ¾ bushel, Wet—3¼ gals. Weight: Net—56 lbs. Shipping—66¼ lbs. Height: 34¼", Diam. (outside)—19". Standard Equipment: 10 ft. 1½" dia. Accordion-Type, Neoprene, Static-Proof Hose, 25 ft. 3-conductor oil resistant cord and plug, 6" Nozzle, Hose Swivel, 6" Brush, Crevice Tool, Brake-equipped front wheel, Handle, and blower connection to receive Hose.

Cat. No. 65 Vacuum Cleaner (specify voltage)

No. 95 VACUUM CLEANER

This SUPER POWERED Heavy-Duty cleaner offers more available power than any comparable competitive unit. MORE CLEANING in LESS TIME.

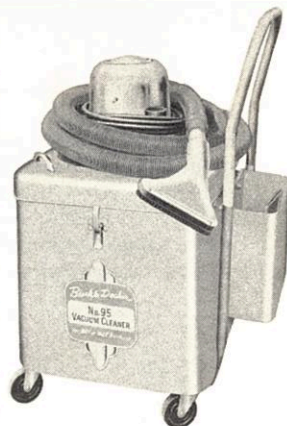
- Special 1¼ H.P. B&D Motor.
- Accordion-Type, Neoprene Hose
- Handle and Accessory Rack
- 4 Rubber Casters for stability.
- 10 to 20% More Cleaning Power.
- For DRY or WET cleaning Jobs.

Dimensions: Height—31"; Width (across flat sides)—18½".

Weight: Net 73 lbs.; Ship., 110 lbs.

Capacity: Dry — 1½ bushels; Wet—13 gallons.

Voltage: 115 or 220. On special order—125 or 240.



Standard Equipment: 10 ft. 1½" dia. Accordion-Type, Neoprene, Static-Proof Hose, swivel inlet for 1½" or 2" diameter hose; 25 ft. of 3-conductor oil resistant cord and plug; 6" Nozzle with Hose Swivel; 6" Brush; Crevice Tool; 4 ball bearing casters, including one equipped with brake; detachable handle and attachment holder; blower connection to receive 1½" or 2" hose.

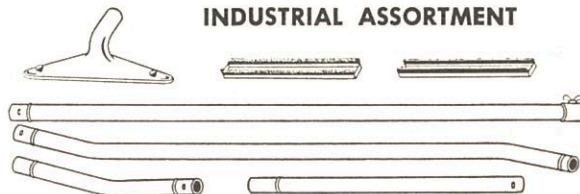
Cat. No. 95 Vacuum Cleaner (Specify volts.)

ATTACHMENTS FOR USE WITH

No. 65 AND No. 95 VACUUM CLEANERS

- Fits Hose Swivel (B), Extension Tubes (I, J); Carries Brush (C) when needed. Incl. with Vac. & Furnace Cleaners. Cat. No. 36956 6" Nozzle
 - Fits into Hose and connects to Nozzles (A, F) or Extension Tube (L). Incl. with Nos. 65 & 95. Cat. No. 36955 Hose Swivel
 - Fits Nozzle (A). Incl. with Nos. 65 & 95. Cat. No. 18186 6" Brush
 - Fits directly into Hose. Incl. with Nos. 65 & 95. Cat. No. 36972 Crevice Tool
 - Connects to Swivel (B), Crevice Tool (D), and Extension Tubes (J, K, L). Incl. with No. 95. Cat. No. 36974 10 ft. 1½" dia. Accordion-Type, Neoprene, Static-Proof Hose.
 - Connects to Swivel (B), Crevice Tool (D), and Extension Tubes (J, K, L). Incl. with Nos. 65 & 55. Cat. No. 37509 10 ft. 1½" dia. Accordion-Type, Neoprene, Static-Proof Hose.
 - Fits Extensions (I, J, K), Swivel (B); can be used with Brush (G) or Squeegee (H). Incl. with Ind. Asst. Cat. No. 37089 15" Floor Nozzle
 - Fits Nozzle (F). Incl. with Ind. Asst. Cat. No. 37086 15" Floor Brush.
 - Fits Nozzle (F). Incl. with Ind. Asst. Cat. No. 37102 Squeegee
 - Fits Hose and connects to Nozzles (F, A). Incl. with Ind. Asst. Cat. No. 37120 5 ft. Double-Angle Extension Tube
 - Connects to Hose or Extension Tube (L); holds Nozzles (A, F). Incl. with Ind. Asst. Cat. No. 37121 18" Angle Extension Tube.
 - Connects to Hose or Extension Tube (L); holds Nozzles (A, F). Incl. with Ind. Asst. & Furnace Cleaner. Cat. No. 37122 2 ft. Straight Ext. Tube.
 - Fits Hose and can be connected to another like itself or other Extension Tubes (K, J) or Swivel (B). Incl. with Ind. Asst. Cat. No. 37124 5 ft. Straight Extension Tube
- An extra equipment Hose with more rigidity than standard hoses (E, E'). Incl. with Furnace Cleaner. Cat. No. 33058 15 ft. Flexible Hose
- For joining two sections of Hose. Cat. No. 25913 Hose Coupling

INDUSTRIAL ASSORTMENT

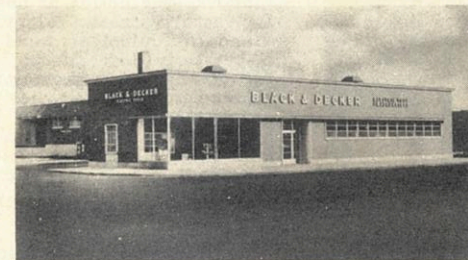
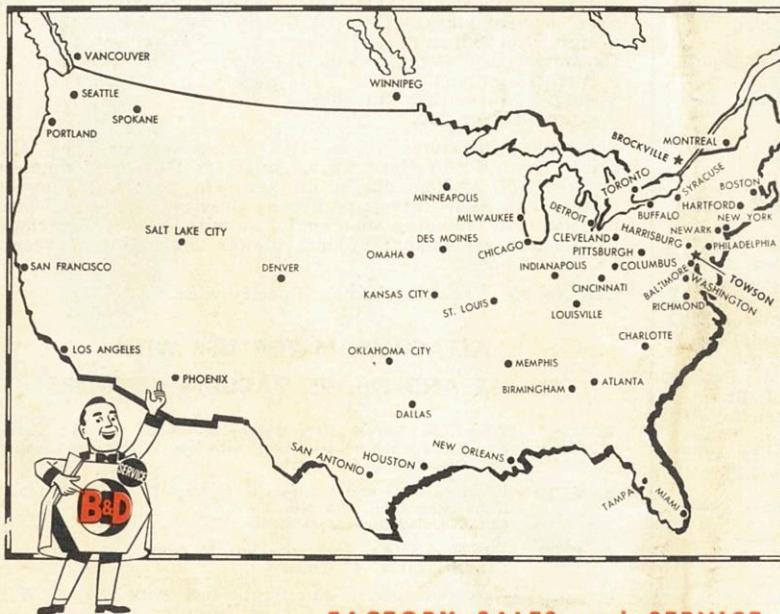


A complete "package" of extra heavy-duty equipment that gives added reaching power to any vacuum Unit. Enables a more thorough cleaning job. Consists of 15" Floor Nozzle, 15" Brush, Squeegee and 4 Extension Tubes: 5 ft. Double-angle, 18" Angle, 2 ft. Straight, and 5 ft. Straight. (Items "F" thru "L" above)—All at a saving. Ship. Wt.: 13 lbs.

Cat. No. 37600 Industrial Assortment

Guarantee

Every Black & Decker product has been carefully inspected before shipment, and we guarantee to correct any defect caused by faulty material or workmanship. Our obligation assumed under this guarantee is limited to the replacing of any part or parts which prove to our satisfaction, upon examination, to have been defective, and which have not been misused or carelessly handled. The complete unit must be returned to one of our Factory Service Branches or to our Factory, transportation charges prepaid. We reserve the right to decline responsibility where repairs have been made or attempted by others. No other guarantee, written or verbal, on our products is authorized by us.



FACTORY SALES and SERVICE BRANCHES

To assure you prompt, efficient service on Black & Decker Products, we operate 48 Factory Service Branches at strategic points throughout the United States and Canada. These Service Branches are manned by Factory-trained personnel and equipped with genuine Black & Decker service and replacement parts. When you need "Factory service," you will find a Black & Decker Factory Service Branch within 24 hours of you, ready to serve you as expertly, as reasonably and as promptly as at Towson.

	Telephone No.		Telephone No.
ALABAMA, Birmingham 3, 1717 Third Ave., South.....	FA 4-6691	NEW JERSEY, Newark 4, 868 Broadway.....	HU 3-1076
ARIZONA, Phoenix, 1506 Grand Ave.....	AL 8-1332	NEW YORK, Buffalo 9, 881 W. Delavan Ave.....	GR 6220-1-2
CALIFORNIA, Los Angeles 7, 2432 S. Broadway.....	RI 9-0371	New York 77, 56-15 Queens Blvd. (Woodside).....	DE 5-1042
San Francisco 24, 4343 Third St.....	AT 2-1900	Syracuse 3, 2140 Erie Blvd., E.....	GR 2-3346
COLORADO, Denver 4, 1010 Bannock St.....	AC 2-0621-2	NORTH CAROLINA, Charlotte 6, 800 N. College St.....	FR 5-3721-2
CONNECTICUT, Hartford 6, 33 Webster St.....	JA 5-4372	OHIO, Cincinnati 2, 1094 Gilbert Ave.....	GA 1-2275-6
DISTRICT OF COLUMBIA, Washington 18,		Cleveland 13, 3901 Detroit Ave.....	OL 1-4243
2353 Rhode Island Ave., N.E.....	AD 2-5908	Columbus 15, 488 E. Main St.....	CA 4-9814
FLORIDA, Miami 37, 3900 N.W. Seventh Ave.....	PL 4-5517-8	OKLAHOMA, Oklahoma City 6, 1717 Linwood Blvd.....	CE 2-7515
Tampa 9, 3407 S. Dale Mabry Hwy.....	66-8351	OREGON, Portland 9, 1640 N.W. Johnson St.....	CA 8-8631
GEORGIA, Atlanta 13, 316 Techwood Drive, N.W.....	JA 4-0431	PENNSYLVANIA, Harrisburg, 4643 Jonestown Rd.	KI 5-0651
ILLINOIS, Chicago 7, 1100 W. Jackson Blvd.....	TA 9-3500	Philadelphia 3, 333 N. 20th St.....	LO 4-5520
INDIANA, Indianapolis 2, 1125 W. 16th St.....	ME 2-5569	Pittsburgh 32, 5437 Baum Blvd.....	EM 2-2700
IOWA, Des Moines 12, 2811 Ingersoll Ave.....	CH 4-7257	TENNESSEE, Memphis 6, 921 South Third St.....	WH 2-3244
KENTUCKY, Louisville 9, 4001 Crittenden Drive.....	EM 6-1495	TEXAS, Dallas 7, 1808 N. Industrial Blvd.....	RI 1-5089
LOUISIANA, New Orleans 16, 2010 Poydras St.....	JA 2-2544	Houston 3, 409 Velasco St.....	CA 8-7521
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